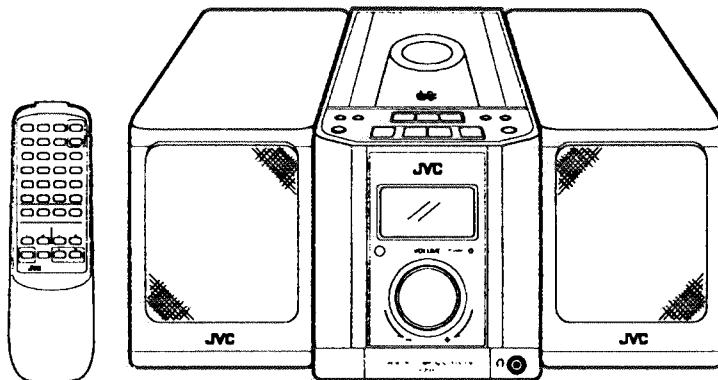


# JVC

## SERVICE MANUAL

ULTRA MICRO COMPONENT SYSTEM

**UX-2000GD UF**



COMPACT  
**disc**  
DIGITAL AUDIO

Area Suffix
UF ..... China

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# 1. Safety Precautions

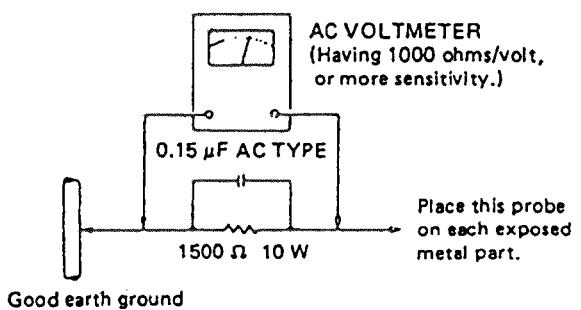
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety - related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by ( ! ) on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re - assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a  $0.15 \mu F$  AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured



**! CAUTION**

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

## 2. Safety Precaution about UX-T2000GD

### ■ Important management points regarding safety (Item demanding special safety precautions)

1. Power transformer marking : VTP66J2 – 12K

The torque of the screw driver for the power transformer must be controlled.

2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage.

The AC socket must not float from print circuit board.

•Marking ..... HJC027

3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.

4. Before installation confirm the fuse capacity indication,  $\odot$  or  $\odot$  mark on the holder.

REF.NO	Capacity and mark	Indication on P.C.board
F901	T400mA/250V	T400mA/250V
F902	T6.3A/250V	T6.3A/250V

5. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts, moving part , hot part, or sharp edges.

6. Following parts are controlled as the heated parts. confirm that the flammable parts are lifted up the parts in ( ) must be controled.

• IC901, IC31, (Q9201),R1001, R1002,R2001,R2002,(R5904),(R4003),IC602, Heat sink+IC91, IC holder( For IC901, IC31), (Heat sink)

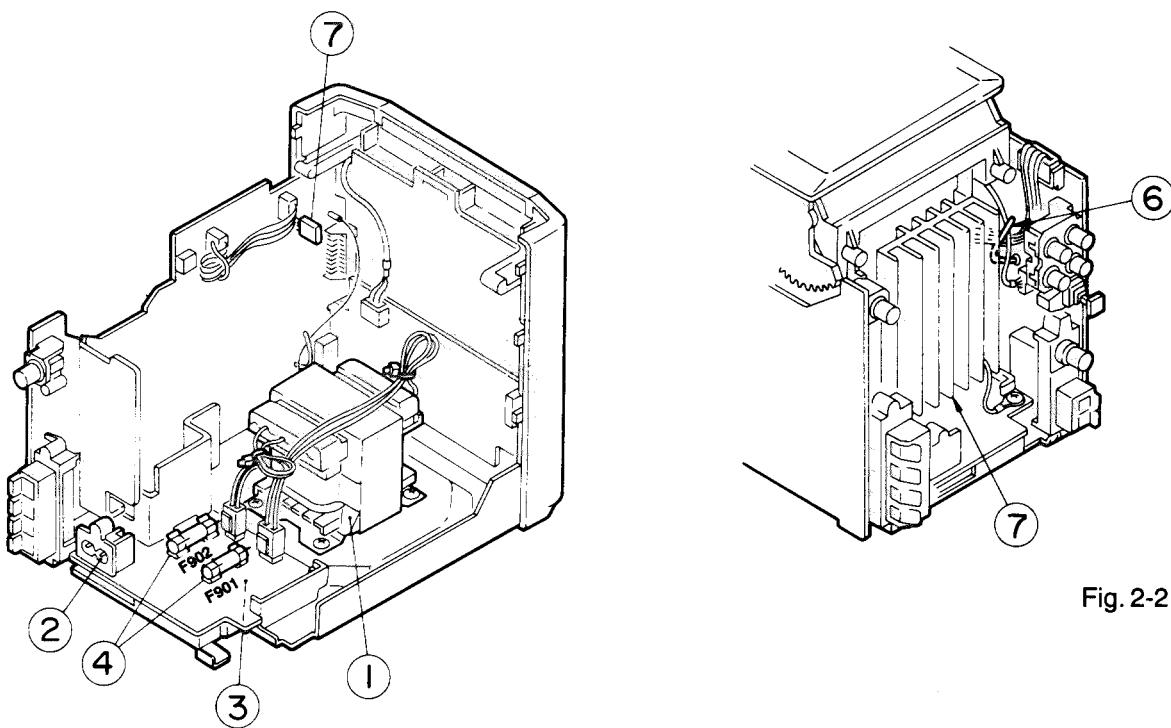


Fig. 2-1

Fig. 2-2

**-MEMO-**

### 3. Instructions

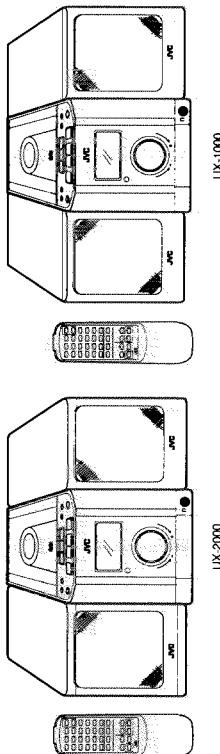


#### UX-2000/UX-1000UF

#### 微型組合音響

## UX-2000 UF UX-1000 UF

#### 微型組合音響



UX-2000



#### 使用說明書

VN99291-12IC

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#### 規格

CD 播放部分	小型唱臂唱機
類型	無觸點唱頭
信號檢測	平衡
聲道	雙聲道
頻率範圍	20 Hz ~ 20,000 Hz
信噪比	90 dB
失真度	小於可聽限值
無線電收音部分	無
頻率範圍	FM: 87.5 ~ 108 MHz AM: 531 ~ 1,602 kHz (頻道間隔設定於 AM10 kHz)
天線	適用 AM 的外接天線 適用 FM (75Ω) 的外接天線端子
揚聲器部分 (總相加)	光學數字輸出
揚聲器	AC 220V, 50Hz
阻抗	30 W (於 POWER SW ON 時) 3 W (於 POWER SW STANDBY 時)
體積	380 (寬) × 161 (高) × 258 (深) mm (包含天線)
重量	約 5.5 kg (UX-2000) 約 3.7 kg (UX-1000)
附件	交流電源線 × 1 遙控器 (RM-RXU1000) × 1 電池 (R6/AA (1.5V)) × 2 (用於遙控器) FM 電線天線 × 1 導形天線座 × 1 機械導線 × 2

設計以及規格有變更，恕不另行通知。

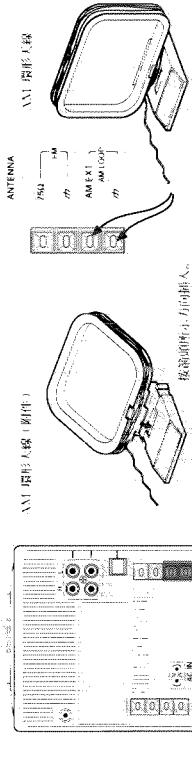


## 連接

- 在所有連接完成之前，請勿通電。

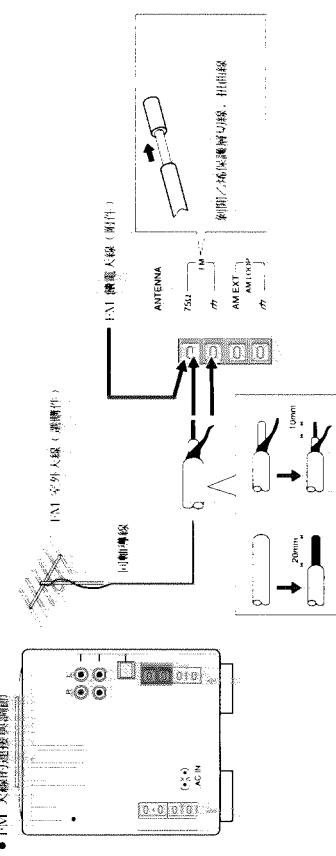
## 天線的連接與調節

## ● AM 雷形天線的調節



- 内置形天線安裝於牆面裝置地方，這樣可以擴大訊號接收效果。（請勿將天線的線捲起來。）

## ● FM 天線的連接與調節



- 如果雷形天線不能獲得理想的接收效果，請使用外天線。

- 切勿將雷形天線放置於金屬桌上，或者更靠近電氣機器以及電器。
- 天線的安裝要有經驗，我們建議您請營業處經銷商安裝。
- 請勿將天線的導線與電線、揚聲器導線放在一起，這樣會產生噪音。圓形天線不要放置於會觸到裝置頂面的地方。

● 請勿連接易爆氣體的導線，請確認是導線芯部不接絕緣層纜線接在揚聲器的端子上，否則將聽不到聲音。

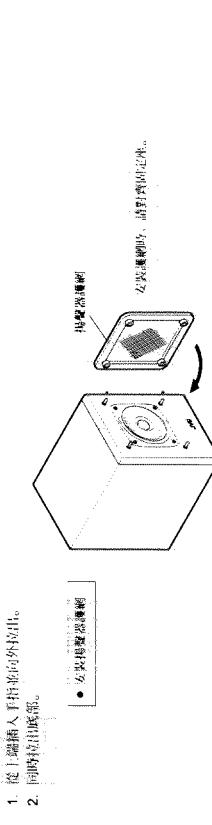
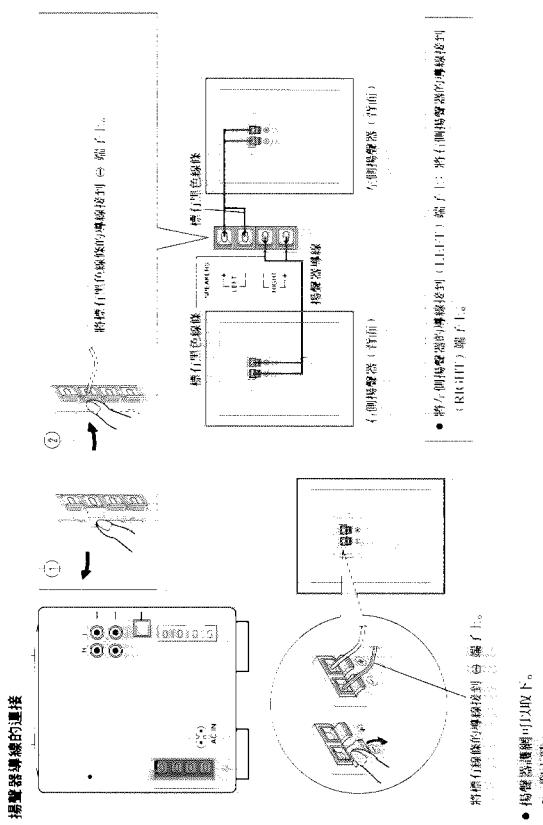
## 揚聲器導線的連接

## ● AM 雷形天線的調節

## ● FM 雷形天線的調節

## ● 外接喇叭的連接

## ● 插頭/插座連接

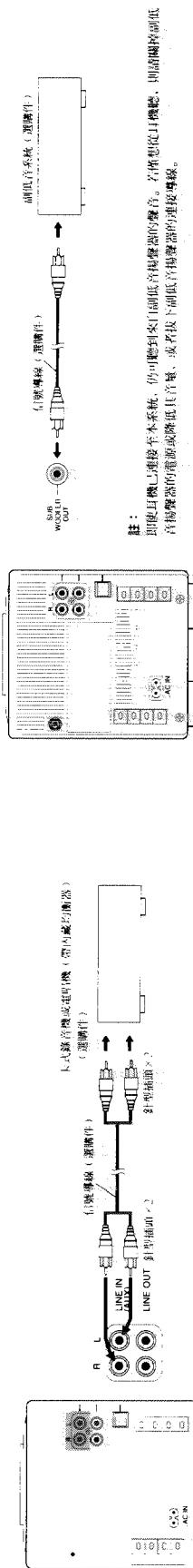


- 如外接喇叭有黑色條紋的揚聲器為導線都接到  $\ominus$  融子上，而接線的兩端揚聲器的極性則相反。如果兩端揚聲器的極性接反了，立體聲效果及音調都會變差。
- 本機的外接揚聲器都為  $\pm$  伸縮保重，因此，如果直接接線於喇叭上，或者接正確地線，都會更重低音擴大。揚聲器應該放置在距離牆面或  $\geq 30$  cm 之處（適用於 U-N-1000 型）。
- 如果要將揚聲器  $\pm$  伸縮保重，請將音量開到最低的揚聲器端子。
- 請勿連接易爆氣體的導線，請確認是導線芯部不接絕緣層纜線接在揚聲器的端子上，否則將聽不到聲音。

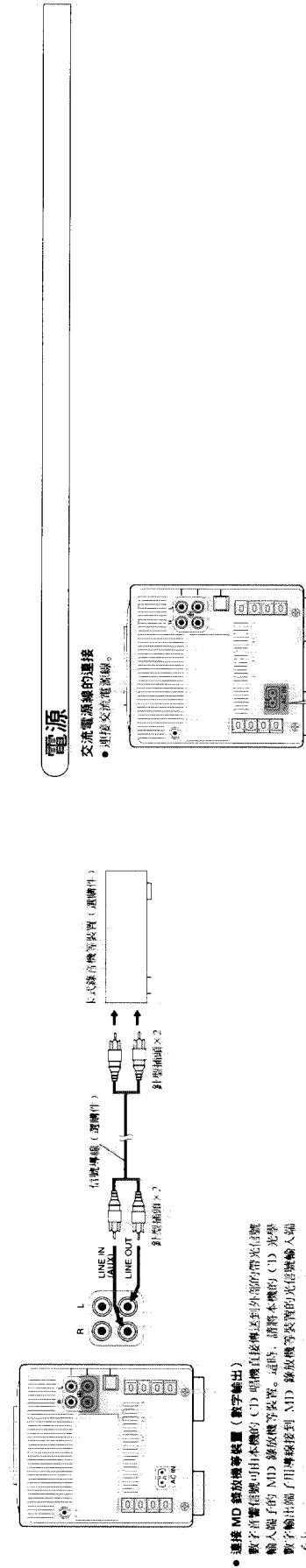
### 外用擴頻裝置的連接

- 連接卡式錄音機或電唱機等裝置（線路輸入）（AUX）
- 本機可外接的卡式錄音機或電唱機等裝置，請參照上頁「外接的裝置」。

- 連接副低音系統（副低音輸出）
- 本機可外接的 JVCA 副低音系統。

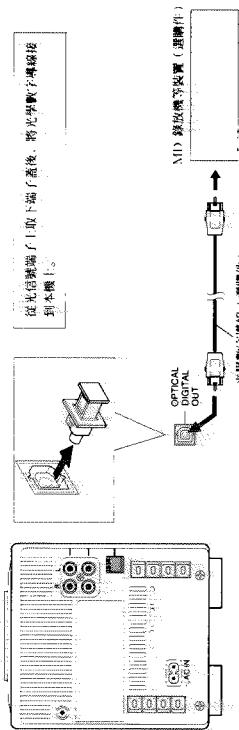


- 連接 MD 錄放機等裝置（數字輸出）
- 當連接 MD 錄放機等裝置（數字輸出）時，請將本機的 CD 光學輸入端子（OPTICAL IN）連接到 MD 錄放機等裝置的光信號輸入端子（OPTICAL OUT）。



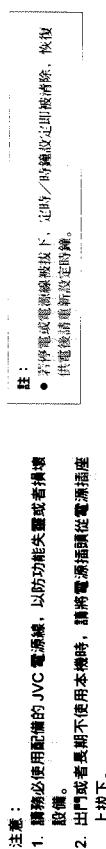
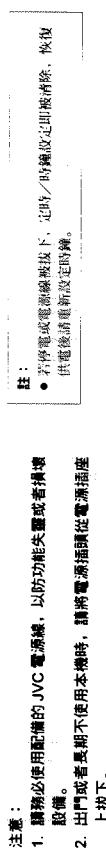
- 連接 MD 錄放機等裝置（導線）

從光信號端子取下端子蓋後，將光學數字導線連到本機上。



- 連接 MD 錄放機等裝置的導線（導線）
- 將光學數字導線連到本機上。

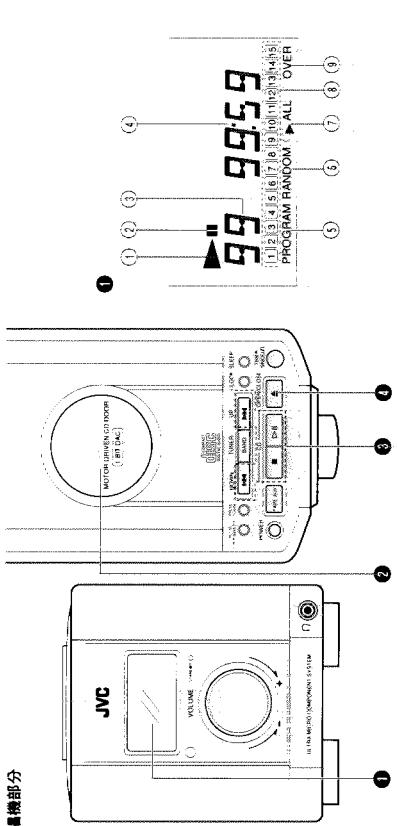
- 連接 MD 錄放機等裝置的導線（導線）
- 將光學數字導線連到本機上。



## 各部件的名稱以及功能

## CD 喇叭部分

## 總合部分

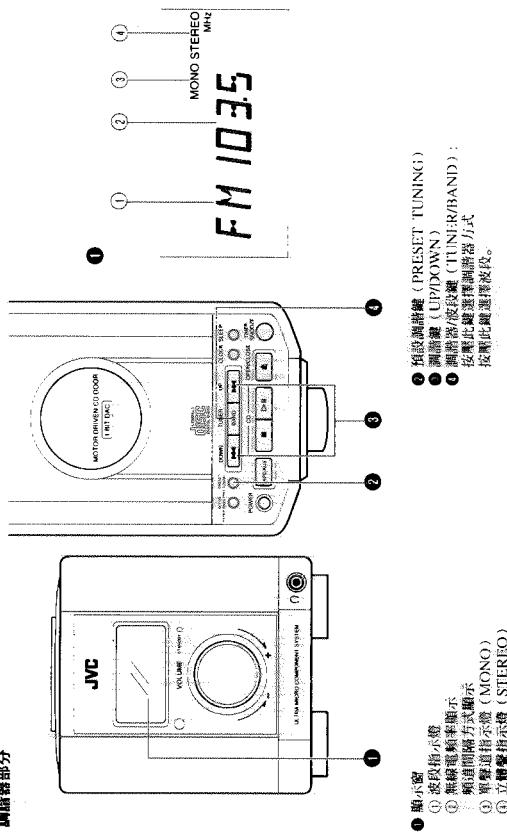


1. 顯示窗  
2. 電源指示燈  
3. 音量指針  
4. 功能  
5. 撥放/暫停鍵  
6. 撥放/暫停顯示  
7. 程序/時間顯示  
8. 隨機播放指針燈  
9. 重複播放指針燈  
10. 亂序播放指針燈 (A.L.L.)  
11. 亂序播放顯示  
12. 超薄指燈 (OVER)  
13. CD 插架  
14. CD 撥放鍵  
15. 停止/消除鍵 (■)  
16. 撥放/暫停鍵 (II)  
17. 撥放/暫停顯示  
18. CD 撥放鍵  
19. CD 撥放/暫停鍵 (SEARCH)  
20. CD 托架 (▲) 前/開/關/後 (OPEN/CLOSE)  
21. 時鐘顯示 (CLOCK)  
22. 電源開關 (POWER)

1. CD 撥放鍵  
2. 停止/消除鍵 (■)  
3. 撥放/暫停鍵 (II)  
4. 撥放/暫停顯示  
5. CD 撥放/暫停鍵 (SEARCH)  
6. CD 托架 (▲) 前/開/關/後 (OPEN/CLOSE)  
7. 時鐘顯示 (CLOCK)  
8. 電源開關 (POWER)

1. CD 撥放鍵  
2. 停止/消除鍵 (■)  
3. 撥放/暫停鍵 (II)  
4. 撥放/暫停顯示  
5. CD 撥放/暫停鍵 (SEARCH)  
6. CD 托架 (▲) 前/開/關/後 (OPEN/CLOSE)  
7. 時鐘顯示 (CLOCK)  
8. 電源開關 (POWER)

## 調音器部分

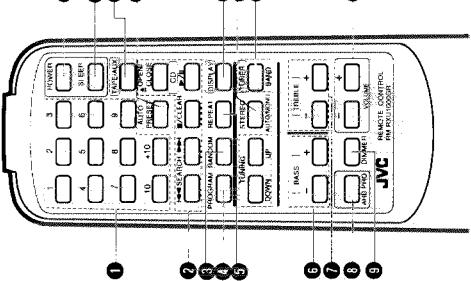


1. 顯示窗  
2. 電源開關 (POWER)  
3. 音量指針  
4. 預設調諧 (PRESET TUNING)  
5. 調諧鍵 (UP/DOWN)  
6. 調諧器後接頭 (TUNER/BAND)  
7. 立體聲指示燈 (STEREO)  
8. 單聲道指示燈 (MONO)  
9. 電源開關 (POWER)

1. 重新蓋上蓋子。  
2. ● 电池的更换  
如果高音器的电池电量耗尽了，或者接线端子锈蚀了，此时请更换新的电池。  
3. 重新盖上盖子。

● 遙控器的使用方法  
對準遙控傳感器部分，在 7 米內操作。  
● 當上蓋蓋緊時，一定的角度使用高音器時，其高音量會減少。  
● 不要讓遙控傳感器部分受到強烈的直射陽光或火照射。  
● 確認有遙控器與遙控傳感器之間沒有障礙物。

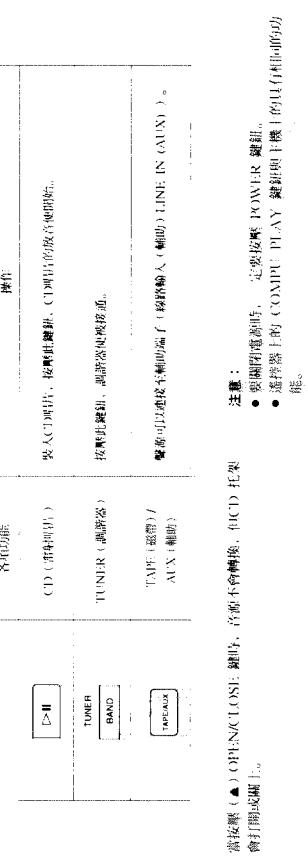
使用遙控器可做下列各項操作。  
•仔細檢查各個按鍵的功能，並且正確使用它們。



### 單鍵放音 (COMP/PLAY)

即按電源鍵或按待機 (STANDBY) 位置，也可按兩下述操作。

- 電源鍵 (第 1 次按到第 10 次, : 10)
- 電源開合鍵 (第 2 次到第 9 次, : 10)
- CD 鍵 (▲) 開/關鍵 (OPEN/CLOSE)
- 插放機/收音機 鍵 (TUNER/BAND)
- 接駁此機器的 CD 開關。
- 停止/待機鍵 (■) (PLAY/STANDBY)
- 撥帶鍵 (SEARCH) (▲, ▾, ▶, ▶)
- 隨機播放鍵 (RANDOM)
- 選曲鍵 (PROGRAM)
- 頻道搜尋鍵 (RADIO/AT)
- 重音鍵 (BASS, +, -)
- (音量調節在 -6 和 6 之間。)
- 高音鍵 (TREBLE, +, -)
- (音量調節在 -6 和 6 之間。)
- 有源超低音產生鍵 (ACTIVE: HYPER-BASS (A/B))
- 電源鍵 (DIMMER)
- 電源 (POWER) 鍵
- 頭戴式耳機 (SLEEPS)
- 錄音帶 / 鋼帶 (TAPE/ANX)
- 自動和裝置 (AUTO PRE-SIT)
- 電子顯示 (DISPLAY)
- 電體發音量調控鍵 (STEREO AUTOMONO)
- 收音機操作鍵 (TUNER/BAND)
- 調音器自動設置 (TAPERA/ANX)
- 按壓此鍵選擇調音器方式。
- 調音量 (UP/DOWN) (+, -)
- 音量鍵 (VOLUME) (+, -)



### 音量、音調和其它控制

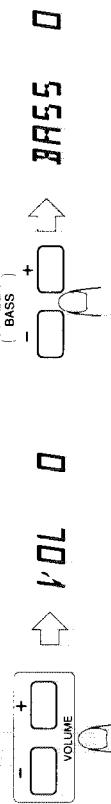
#### 音量 (VOLUME) (使用遙控器)

- 用來增大人音量。
- 用來減小音量。
- 音量調節從 VOL. 0 至 VOL. 50

#### 低音 / 高音鍵 (BASS/TREBLE) (使用遙控器)

● 要調節低音時，一定要按 POWER 鍵。

● 按音量 (▲) OPEN/CLOSE) 鍵時，音量不會轉換。LCD 打開時會打開或關上。



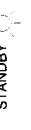
### 電源的接通與斷開

#### 電源鍵 (POWER) 鍵帶 / 鋼帶 (TAPE/AUX) 鍵

- 接通電源：



- 斷開電源：



● 低音 (BASS) 按 / 鋼帶：

● 按音量 (▲) OPEN/CLOSE) 鍵時，音量不會轉換。LCD 打開或關上。

● 要調節低音時，一定要按 POWER 鍵。

● 按音量 (▲) OPEN/CLOSE) 鍵時，音量不會轉換。LCD 打開或關上。

#### 低音 / 高音鍵 (BASS/TREBLE) (使用遙控器)

● 要調節低音時，一定要按 POWER 鍵。

● 按音量 (▲) OPEN/CLOSE) 鍵時，音量不會轉換。LCD 打開或關上。

#### 螢光燈 (DIMMER) (使用遙控器)

- 要調節螢光燈時：

● 按音量 (▲) OPEN/CLOSE) 鍵時，音量不會轉換。LCD 打開或關上。

● 在第 10 步驟內，將電源開至放音機和 HYBRISOUND 鍵的前面。







## ②

## 預設調諭

- 在進行操作之前必須預設電台。

## (使用主機)

- 按壓TUNER/BAND鍵。
- 按壓TUNER/BAND鍵選擇希望的頻段。
- 按壓PRESET TUNING鍵選擇希望的電台。
- 將顯示屏上按下的鍵的所設電子點亮。

## ③

## 預設調諭

## (使用遙控器)

- 按壓TUNER/BAND鍵。
- 按壓TUNER/BAND鍵選擇希望的頻段。
- 按壓預設電台鍵(第1鍵, 第10鍵)選擇希望的電台。
- 將顯示屏上按下的鍵的所設電子點亮。



## ④

## 預設調諭

## (使用主機)

- 如果在北美洲或者南美洲使用本機, 請將其設於AM-10 kHz。
- 這可以使AM波段的頻率增加10 kHz, FM波段的頻率增加10 kHz。

## ⑤

## 如何更改(使用主機)

- 按壓UP鍵將電源(POWER)鍵設定於ON的位置。
- (AM-10 kHz)將會出現顯示屏。

## ⑥

## 如何更改(使用遙控器)

- 按壓UP/DOWN鍵將電源(POWER)鍵設定於ON的位置。
- (AM-10 kHz)將會出現顯示屏。



## ⑦

## 時鐘的調節

## (譬如: 將時間設定為13:15)。

## ⑧

## 設定現在的時間(當第一次使用本機時)

## ⑨

## 要調整現在時間(電源接通時)

- 連接交流電源線, "CLOCK"在顯示窗中閃爍。
- 按壓CLOCK鍵2秒或更長, 電源的"0:00"將會閃爍。
- 通過按壓UP/DOWN鍵將其設定成13:15。
- (當按住鍵時, 分鐘/小時指針將會連續轉動。)
- 按壓CLOCK鍵, 時間顯示會出現在顯示器上。
- 如果要設時間設置可能性僅...  
當您從電源或廣播中聽到報時鐘聲時, 按壓TICK鍵。

## ⑩

## 定時器的使用

## 設定定時器

- 只有先設定了現在時間, 定時器才可以使用。

## ⑪

## 按壓TIMER/SNOOZE鍵。

## ⑫

## 定时器的使用

- 如果定時器的設定有錯或者所選功能有錯, 請從頭開始進行定時器的設定。

## ⑬

## 定时器的使用

## ⑭

## 定时器的使用

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## ⑮

## 按壓TIMER/SNOOZE鍵。

## ⑯

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## 4. Location of Main Parts

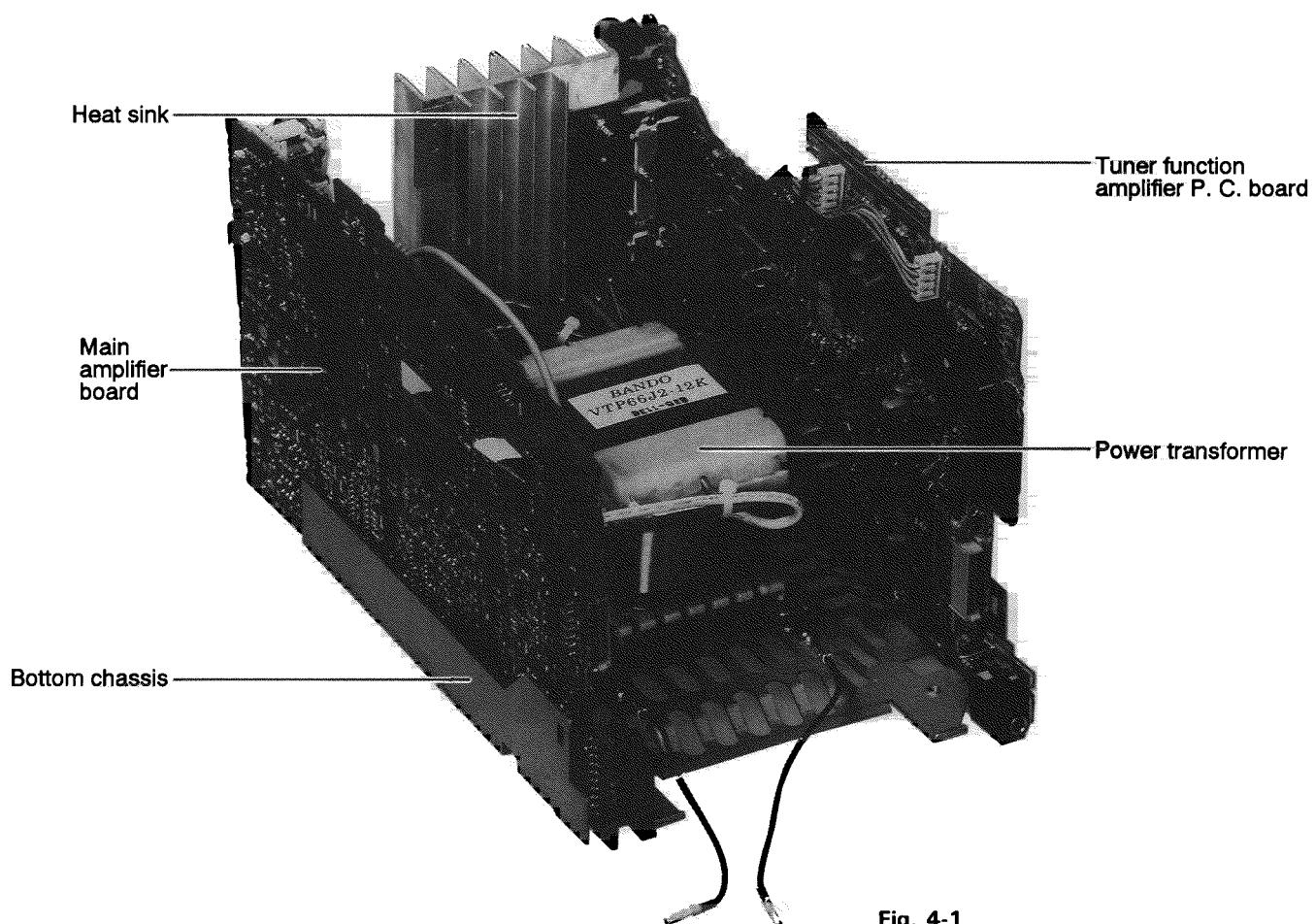


Fig. 4-1

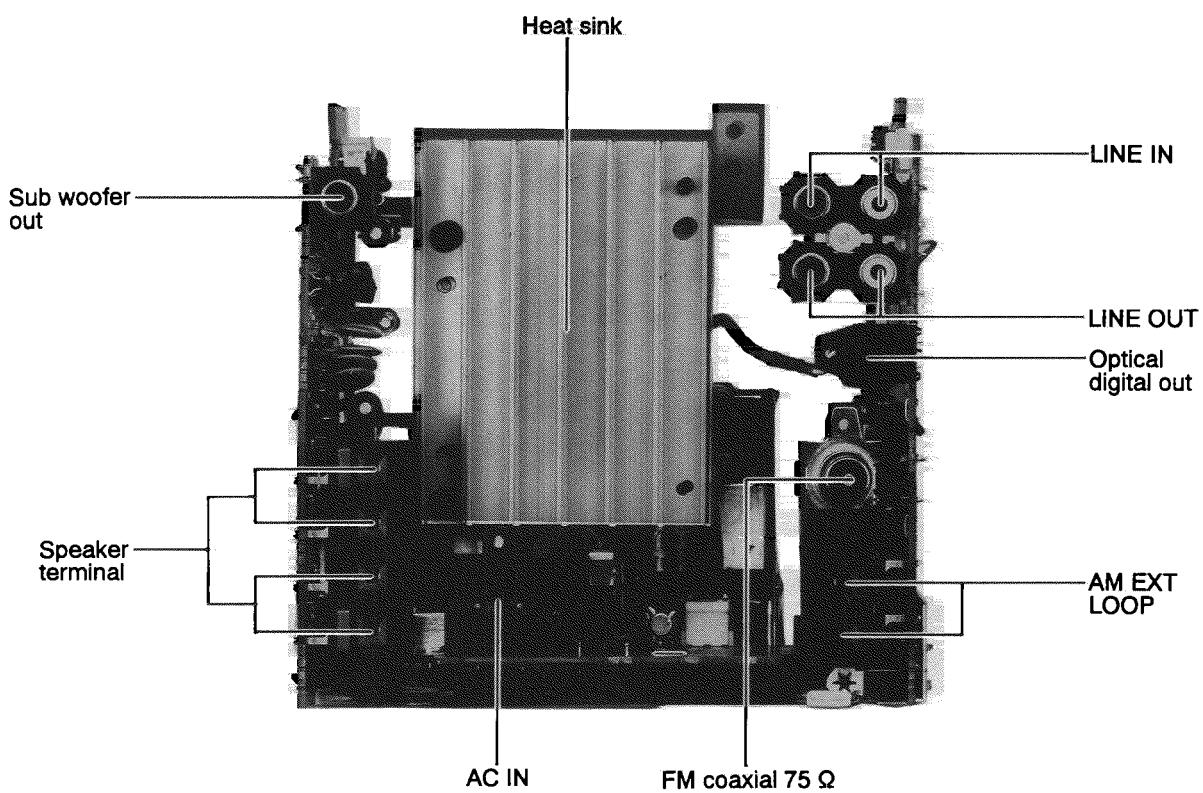


Fig. 4-2

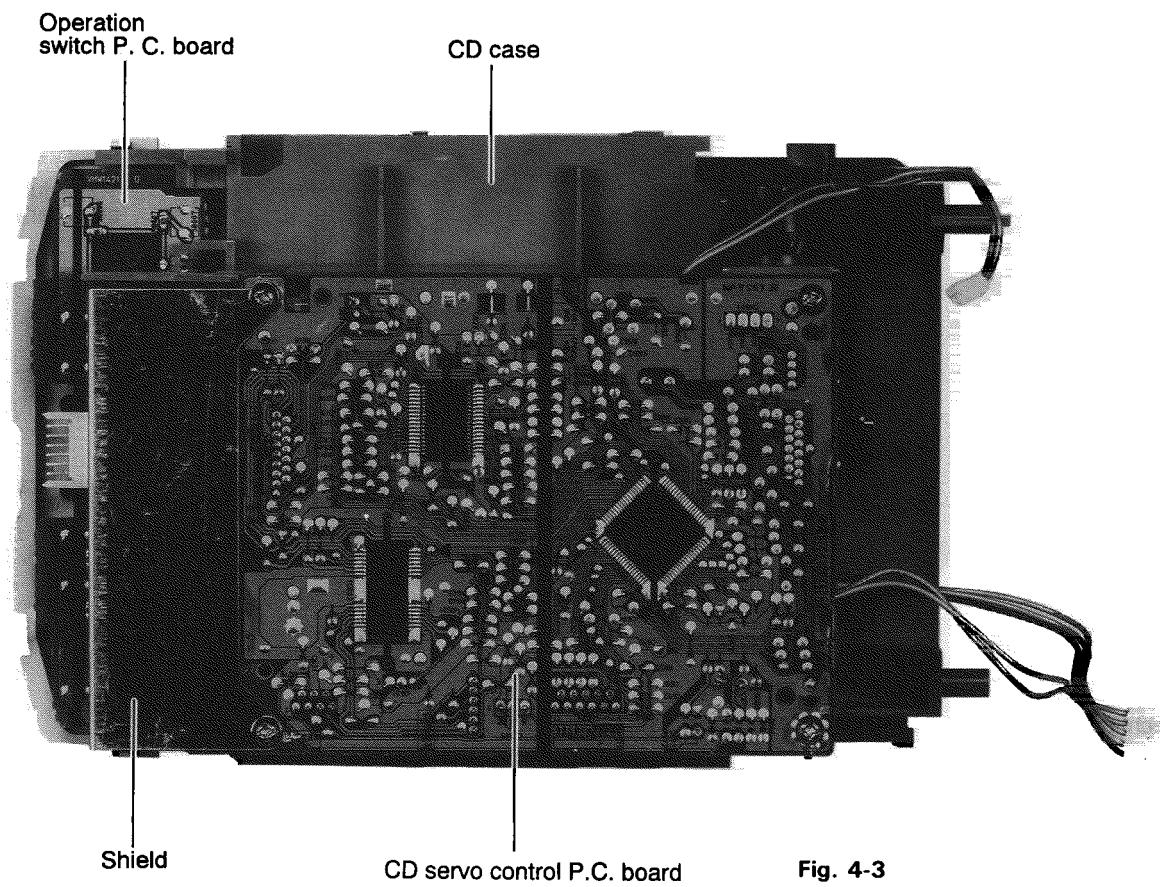


Fig. 4-3

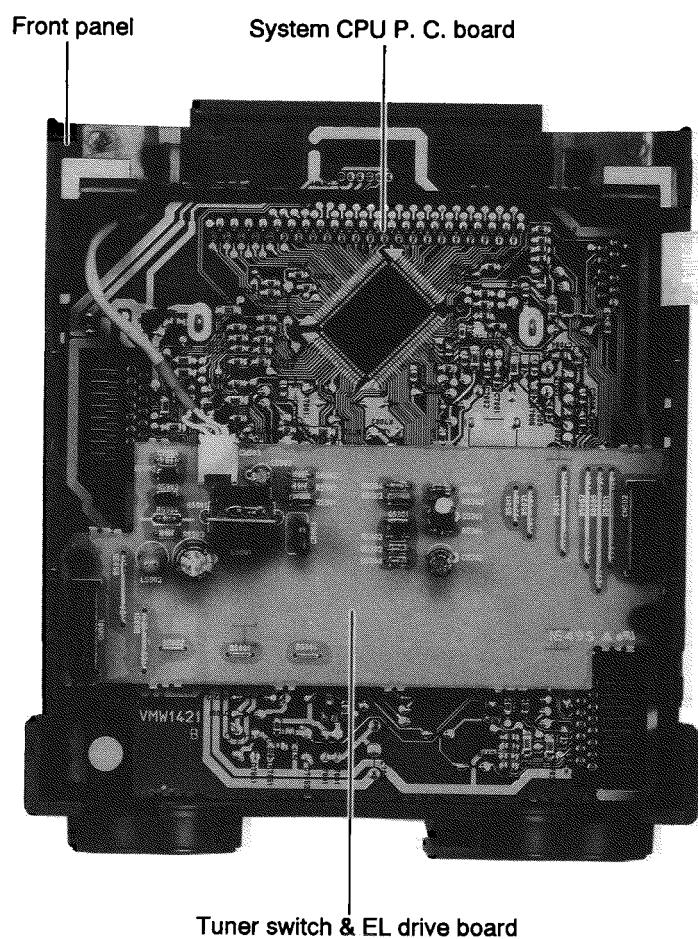


Fig. 4-4

## 5. Removal of Main Parts

### ■ Removing the rear cover and side panel (See Figs. 5-1~5-4)

1. • Remove the six screws ① retaining the rear cover from behind the body.  
• From the bottom face of the body, remove the four screws ② retaining the rear cover.  
• After passing the lock pawls at the speaker terminals through the position in Fig. 5-1, remove the rear cover.
2. • Remove the two screws ③ retaining both of the right and left side panels.  
• By moving the side panels (right and left sides) while pulling out the panels toward the rear side, disengage the upper two engagement sections, and dismount the panels while expanding them toward the front side.

※ For assembling (the rear cover and side panels), mount the upper two engagement sections while aligning the same in place at first, and assemble the rear cover and side panels while plugging (the cover and panels) toward the front side.

3. The side fitting should be pulled out upward.

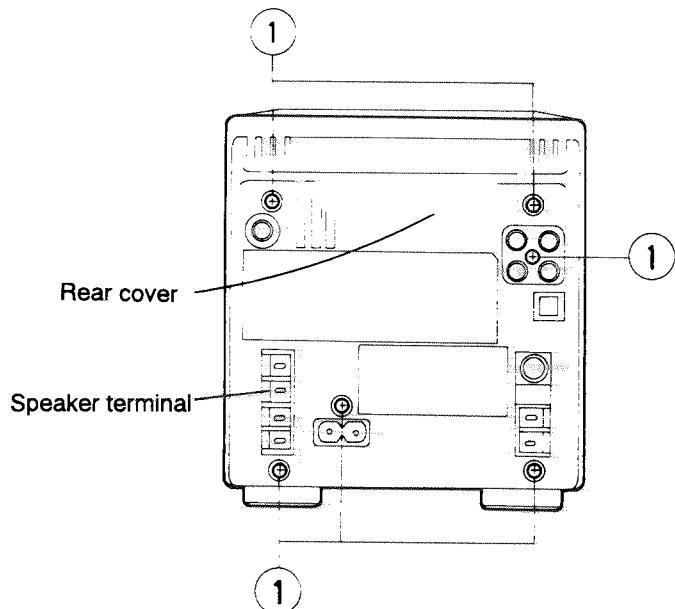


Fig. 5-1

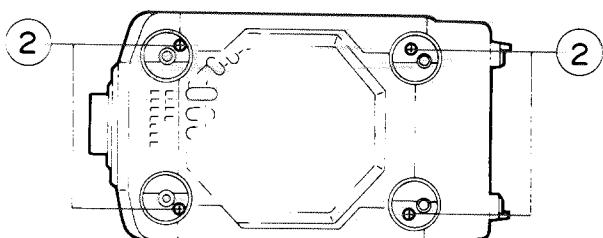


Fig. 5-2

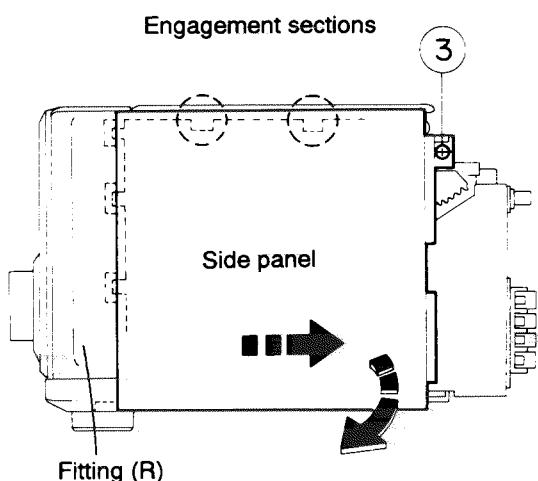


Fig. 5-3

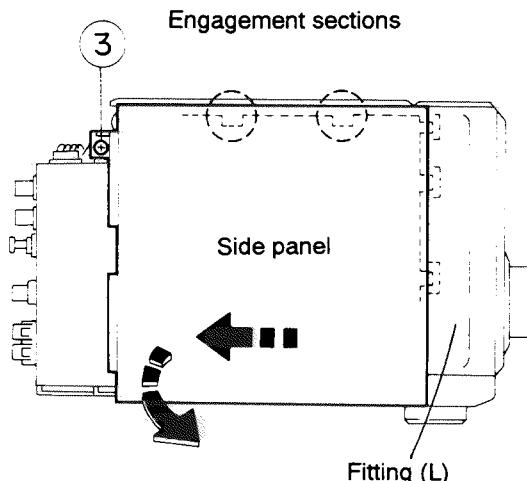


Fig. 5-4

## ■ Removing the CD player assembly

(See Figs. 5-5~5-7)

1. Remove the rear cover from behind the body.
2. Remove the side panels and fittings (L and R).
3. After removing the three screws ④ from behind the body, dismount the heat sink.
4. • From the side of the body, remove the two screws ⑤ retaining the CD player assembly.  
 • Remove the one screw ⑥ retaining the tuner function amplifier P.C. board.  
 • Remove the connector wires from the connectors CN643 and CN635 on the tuner function amplifier P.C. board, and then remove the card wires connected to the connector CN631 CD servo control P.C. board.  
 • Remove the connector wire from the connector CN301 on the main board.
5. Remove the CD player while pulling it out toward the rear side.

Then, the connector CN801 connected to the connector CN781 on the LCD microcomputer P.C. board of the front assembly will be disconnected at the same time.

※ To ensure easy assembly of the CD player assembly, temporarily remove the tuner function amplifier P.C. board, and after mounting the CD player assembly, assemble the tuner function amplifier P.C. board.

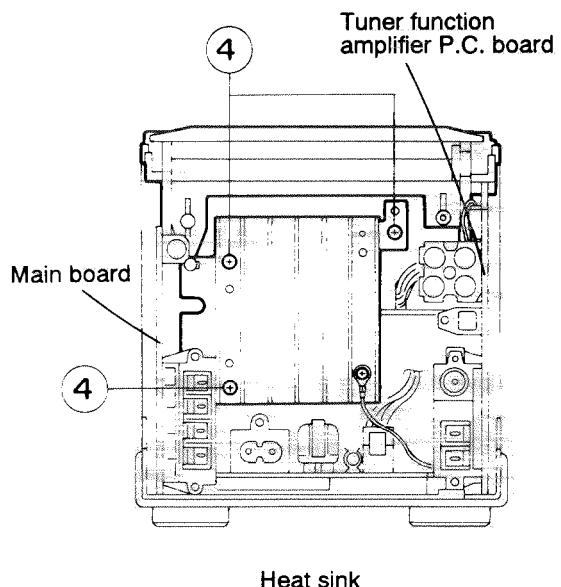


Fig. 5-5

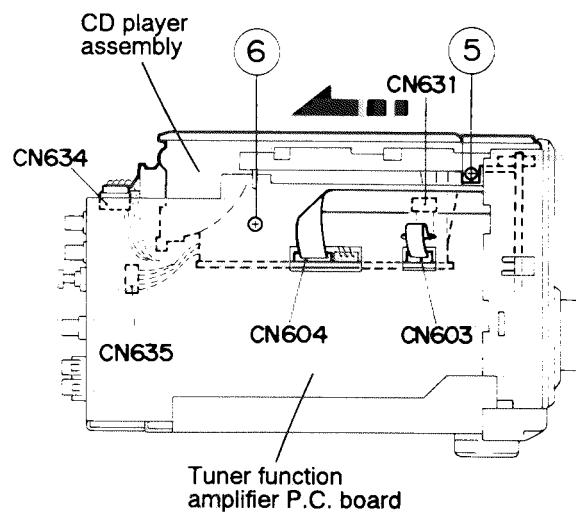


Fig. 5-6

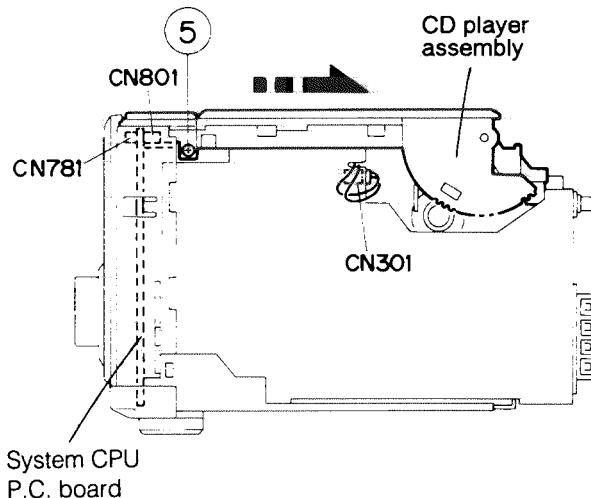


Fig. 5-7

## ■ Removing the CD player section

(See Figs. 5-8~5-13)

1. Remove the CD player assembly.
2. Removing the CD player assembly
  - Remove the two screws ⑦ retaining the shield.
  - Remove the remaining two screws retaining the CD servo control P.C. board.
  - Remove the card wire from the connector CN602 on the CD servo control P.C. board connected to the CD mechanism, and also the card wire from the connector CN601.
3. Removing the CD mechanism assembly
  - Remove the four screws ⑧ retaining the CD motor drive P.C. board.
4. Removing the CD motor drive P.C. board
  - Remove the two screws ⑨ retaining the CD motor drive P.C. board.
  - After disengaging the belt from the motor pulley, remove the CD motor drive P.C. board.
5. Removing the CD door assembly
  - Disengage the two engagement sections on both the right and left sides of the CD door while expanding the sections outward.
6. Removing the operation switch P.C. board
  - Remove the top panel while expanding the right and left side pawls outward.
  - Remove the operation switch P.C. board upward.

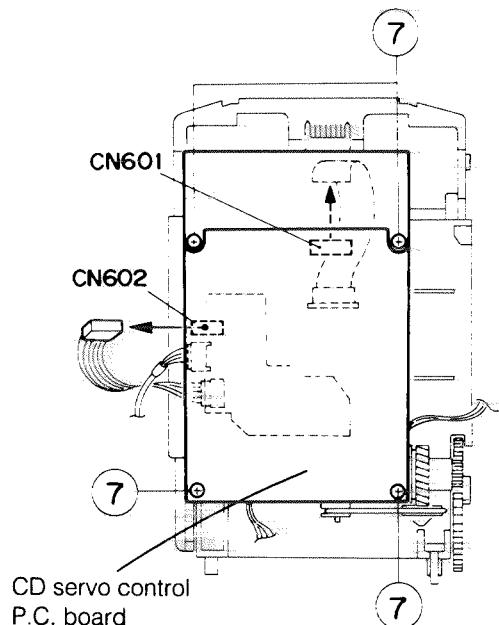


Fig. 5-8

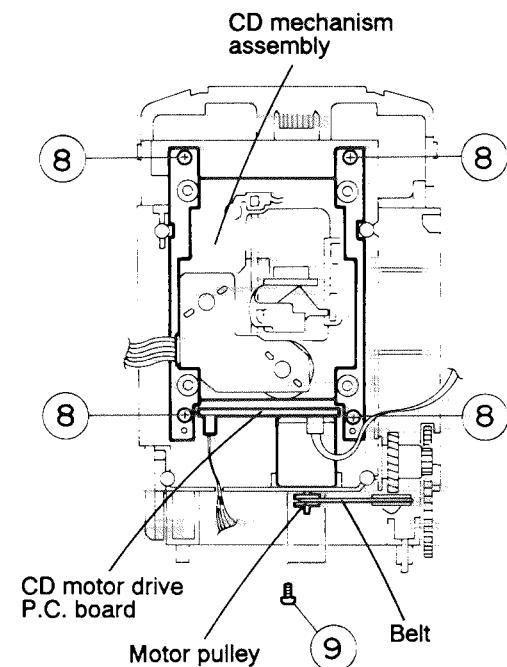


Fig. 5-9

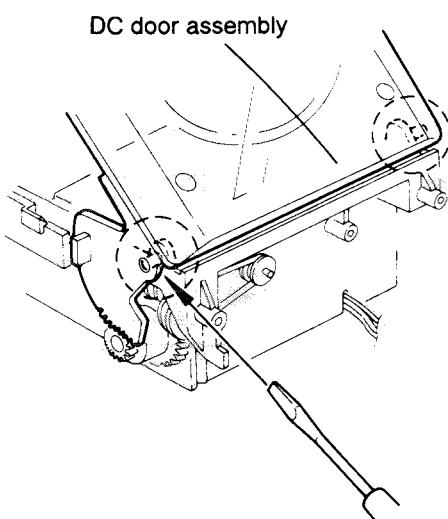


Fig. 5-10

### ■ Removing the tuner function amplifier P.C. board (See Figs. 5-14~5-16)

- Remove the connectors CN633 and CN632 on the tuner function amplifier P.C. board by pulling them out respectively from the front assembly.
- Remove the card wire from the post pin W6001 on the tuner function amplifier P.C. board.

### ■ Removing the main board

1. Remove the earth wire from the post pin CN531 on the main board.
2. Disconnect the main connector CN300 on the main board connected to the power supply P.C. board while expanding the main board outward.
3. Disconnect the connectors CN302 and CN303 on the main board toward the rear side by pulling the connectors out from the front assembly.

### ■ Removing the power supply P.C. board

1. After removing the two screws ⑩, disconnect the connector CN903 on the power supply P.C. board connected to the main board.
2. From the connectors CN902 and CN901, remove the connector wires outgoing from the power supply transformer.
3. While disengaging the power supply P.C. board and holder engagement, remove the power supply P.C. board.

### ■ Removing the power supply transformer assembly

- Removing the four screws ⑪. From the connectors CN902 and CN901 on the power supply P.C. board, remove the connector wire connected to the power supply P.C. board.

※ For assembly, position the primary side upward, and perform assembly of the respective parts.

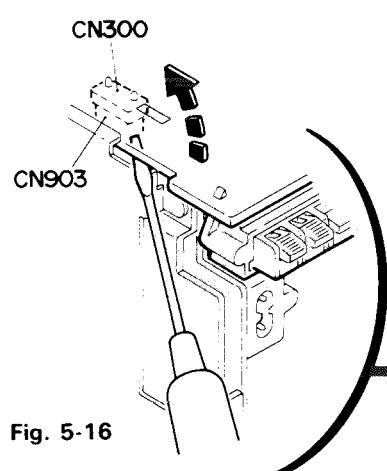


Fig. 5-16

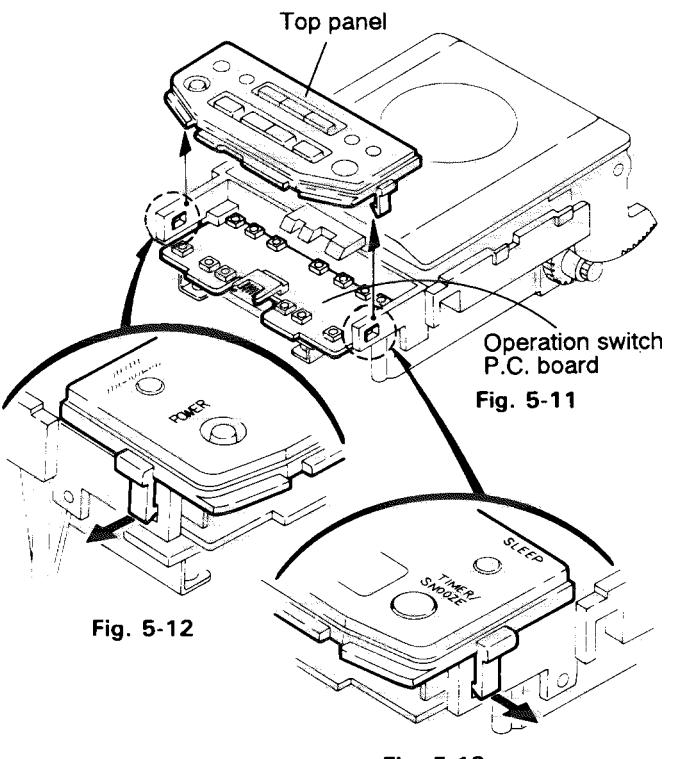


Fig. 5-12

Fig. 5-13

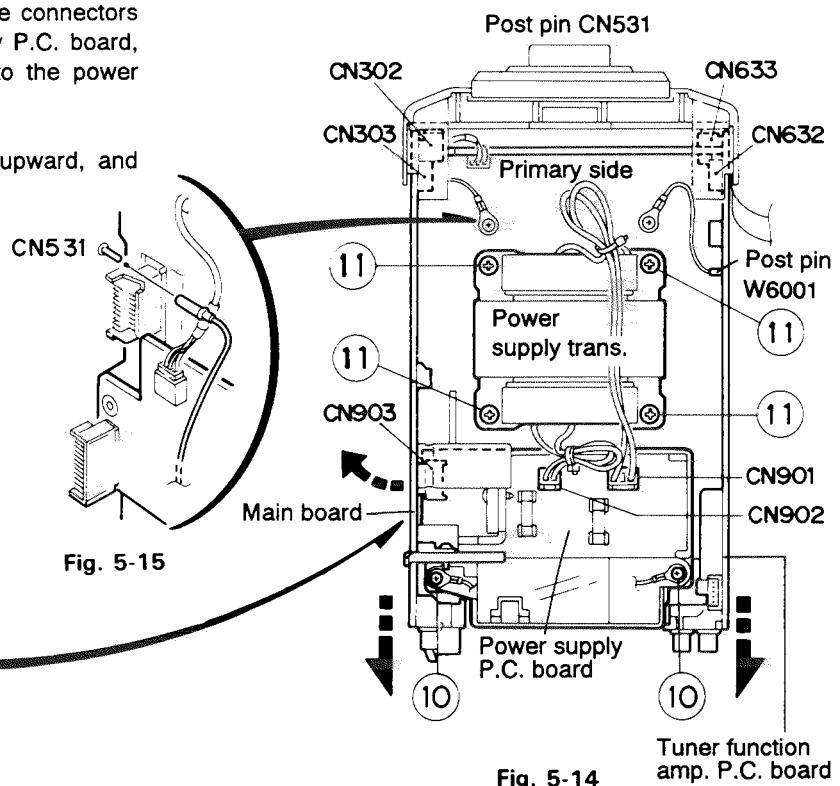


Fig. 5-14

## ■ Removing the front assembly

(See Figs. 5-17~5-19)

1. Remove the rear cover from behind the body.
2. Dismount the CD player assembly.
3. Remove the side panels and fittings (L and R).
4. After removing the knob from the front face of the body and two screws ⑫, dismount the volume escussion.
5. By using a driver and other tool, remove the two pawls provided on both the right and left sides for engaging the front assembly and bottom chassis.
6. After removing the front panel assembly toward the front side, disconnect the connector CN781 on the system CPU P.C. board from the CD player assembly at the same time.

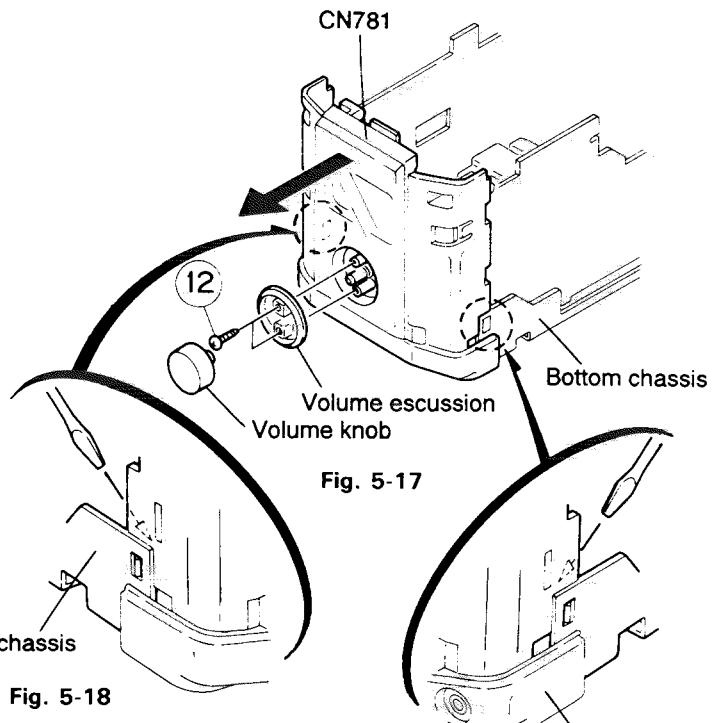


Fig. 5-18

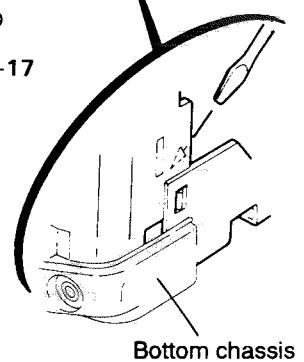


Fig. 5-19

■ **Removing the tuner switch EL driver P.C. board and system CPU P.C. board**

(see Figs.5-20 and 5-21)

1. • While expanding the engagement sections **a** and **b** with the front cabinet, remove the tuner switch EL driver P.C. board.  
• Remove the connector wire from the connector CN503 connected to the system CPU P.C. board.
2. • Remove the one screws **13**.  
• While expanding the engagement sections **c** and **d** with the front cabinet to outside, remove the system CPU P.C. board.

● **Assembly method**

1. Insert the power supply P.C. board into the engagement section of the power supply P.C. board holder, assemble the power supply P.C. board on the bottom chassis together with the power supply P.C. board holder.
2. Subsequent to mounting the power supply transformer, the secondary side connector wire outgoing from the power supply transformer and the primary side connector wire on the power supply P.C. board should be connected respectively to the connectors CN902 and CN901 on the power supply P.C. board.
3. Connect the connector CN300 on the main board to CN903 on the power supply board, and assembly the main board on the bottom chassis.
4. Engage the front assembly exactly to the pawl at the engagement section of the bottom chassis, and connect the connectors CN302 and CN303 on the the main board respectively to the connector CN711 on the system CPU P.C. board of the front assembly and the connector CN501 on the tuner switch EL driver P.C. board.
5. Assemble the CD player assembly while plugging the connector CN801 on the operation switch P.C. board of the CD player assembly to the connector CN781 on the system CPU P.C. board of the front assembly.
6. Plug in the connectors CN633 and CN632 on the tuner function amplifier P.C. board to the connector CN502 on the tuner switch EL driver P.C. board of the front assembly and CN761 on the system CPU P.C. board.

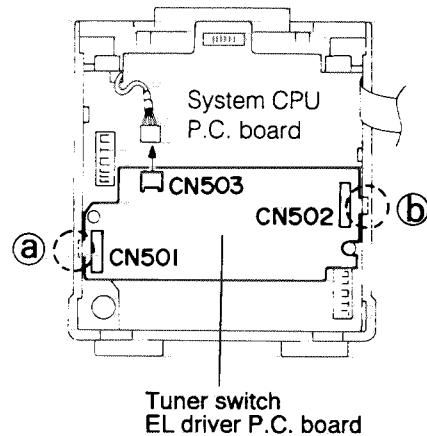


Fig. 5-20

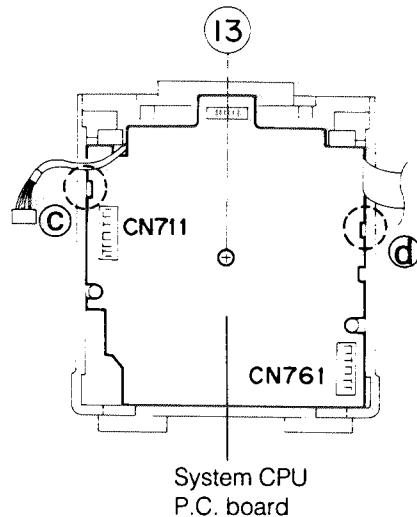


Fig. 5-21

## 6. Main Adjustment

### ■ Test Instruments required for adjustment

1. Low frequency oscillator  
( Frequency range: 50Hz to 20kHz)
- ( Output : 0 dBs across 600  $\Omega$  terminating resistor )
2. Attenuator( Impedance : 600  $\Omega$  )
3. Test disc : CTS - 1000( Audio )  
: CTS - 1000 & CRG - 1211S( Optical Control )
4. Extension cord : EXTUX1000 - JIG
5. Electronic voltmeter
6. Distortion meter
7. Jitter meter : NJM631
8. TE offset meter : LTM9055

### ■ Measuring conditions (Amplifier section)

Supply voltage ..... AC110/127/230V ( 50/60Hz )

Reference output level : Speaker  
0 dBs (0.775V) / 4  $\Omega$   
: Headphone  
- 10dBs (0.245V) / 32  $\Omega$   
: Line out  
300mV( - 8.2dBs) / 47k  $\Omega$

Standard test frequency

: 1kHz unless otherwise specified

Reference input level ..... AUX - 8dBs

Output for measuring, unless otherwise specified

: at speaker terminal J3003(Dummy load :4  $\Omega$ )

Posture of test ..... Horizontal

### ● Standard position of function switches

Function switch ..... to AUX  
Active hyper- bass prop switch ..... to off

### ● Standard position of volume control

Bass treble ..... to center / flat position  
Main volume adjust ..... 0 dBs output position

### ● Test remarks

1. Negative side of the input and output terminals of the testing set, shall be isolated from each other. The negative side should not be commonly connected when a 2channel electronic voltmeter is connected.
2. A dummy load shall be connected to the output

terminal and the lead wires of dummy load shall be as thick as possible.

### ■ Measuring condition (Tuner section)

Rating source ..... DC 12V  
Power source to tuner: DC5.3V  
Reference output ..... Speaker : 60mW(0.49 V / 4  $\Omega$ )  
Headphone : 0.066mV/ 32  $\Omega$   
AM modulation ..... 400Hz, 30%  
FM modulation ..... 400Hz deviation 22.5kHz

### ● Standard position of switches and controllers

Function switch ..... to RADIO  
Mode switch ..... to STEREO  
Bass ..... 0 center position  
Treble ..... 0 center position  
Active hyper- bass prop switch ..... to off

### ● Tuner input position

LW / MW : Standard loop antenna  
FM : Hot TP1( Extention terminal )  
: GND TP2 Extention terminal )

### ● Arrangment of loop antenna

When measuring keep the loop antenna away from the set more than 20cm .In case a test item is affected by small noise ( Ex. Quieting sensitivity more than 30cm is necessary.)

### ● Remarks for alignment

1. Connect 30 pF capacitor and 33 k  $\Omega$  resistor to the output terminal of the IF sweeper in series while 0.082  $\mu$  F capacitor and 100k  $\Omega$  resistor to the input terminal in series.
2. Set the output level of the IF sweeper as low as adjustable.
3. IF alignment is not necessary for both AM and FM MPX alignment is not necessary either. All IFTs and MPX coil are non-adjusting type.

### ■ How to Connect the Extension Cord (EXTUX1000-JIG)

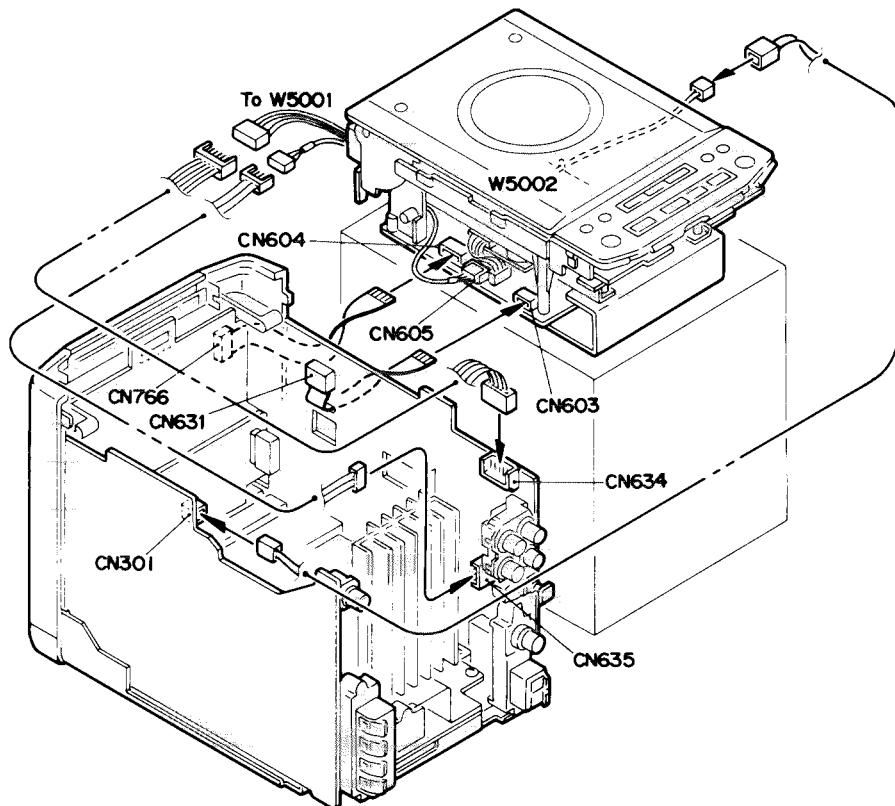


Fig. 6-1

### ■ Arrangement Checking Test Point

(CD servo control board)

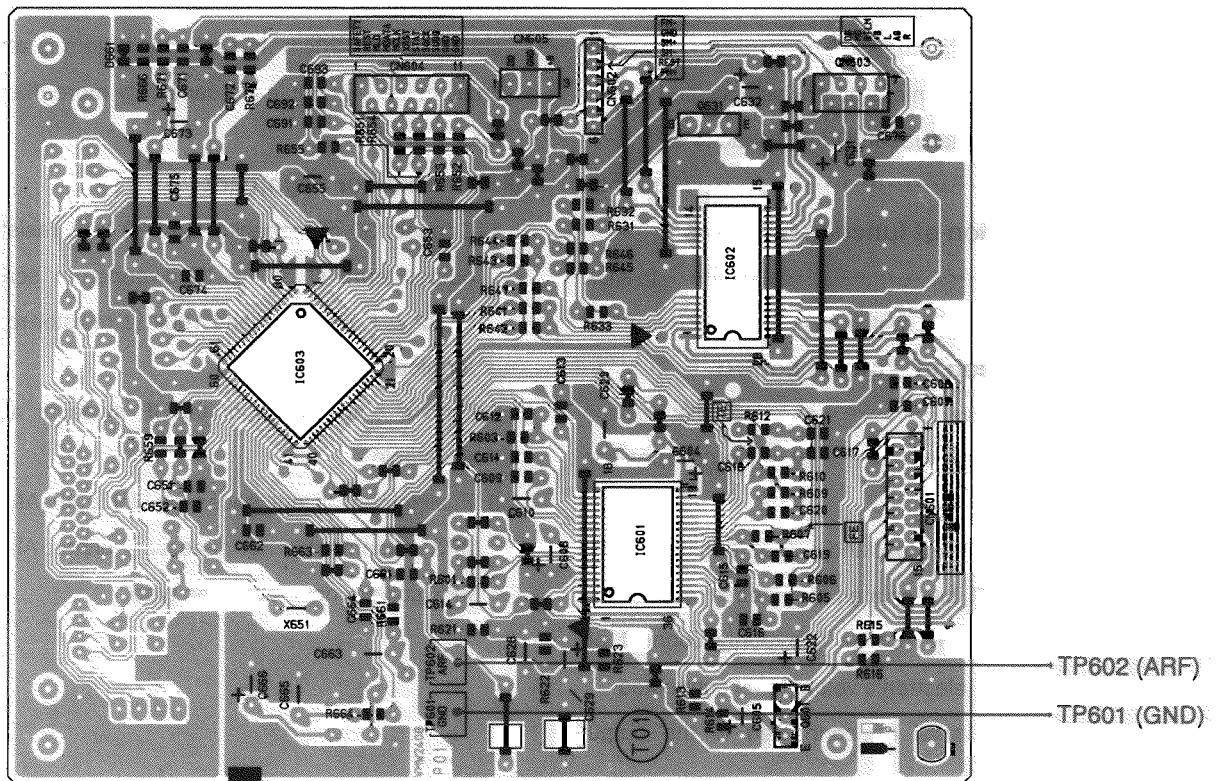
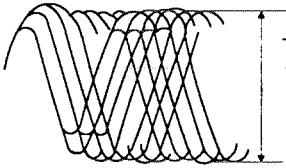


Fig. 6-2

## ■ Amplifier section

Items	Conditions	Adjustment and Confirmation procedure	Standard Value	Adjusting
1. Amplifier gain check	<ul style="list-style-type: none"> <li>•Measuring instrument : Oscilloscope</li> <li>•Measuring point : AUX IN</li> <li>•Speaker terminal</li> </ul>	Input the 1kHz to AUX IN. Main volume is maximum. When speaker output becomes 0dB, input is $-19dB \pm 4dB$ .	$-19dB \pm 4dB$	—
2. Noise level check	<ul style="list-style-type: none"> <li>•Measuring instrument :Oscilloscope</li> <li>•Measuring point : AUX IN</li> <li>•Speaker terminal</li> </ul>	<ul style="list-style-type: none"> <li>• Switch and volume position Function switch : AUX. Bass treble : flat</li> <li>When main volume becomes maximum, confirm that speaker output is less than 4mV. When main volume becomes minimum, confirm that speaker output is less than 2mV.</li> </ul>	Less than 4mV Less than 2mV	—
3. Line output check	<ul style="list-style-type: none"> <li>•Measuring instrument :Oscilloscope</li> <li>•Measuring point : AUX IN</li> <li>•Test disc :CTS-1000</li> </ul>	When test disc (track 1)is played,Confirm that Line out is $+4dBs \pm 4dB$ .	$+4dBs \pm 4dB$	—
4.Sub woofer output check	<ul style="list-style-type: none"> <li>•Measuring instrument :Oscilloscope</li> <li>•Measuring point : AUX IN</li> <li>•Test disc :CTS-1000</li> </ul>	Input the reference frequency 100Hzfrom AUX IN. By main volume is maximum position, bass and treble is flat position,Confirm the sub woofer output is $-14dBs \pm 4dB$ .	$-14dBs \pm 4dB$	—

## ■ CD section

Items	Conditions	Adjustment and Confirmation procedure	Standard Value	Adjusting
1. Jitter check	<ul style="list-style-type: none"> <li>•Measuring instrument : Jitter meter</li> <li>•Test point :TP601(GND side) :TP602(ARF side)</li> <li>•Test disc :CTS-1000</li> </ul>	Connect the jitter meter between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that the meter reading is 26n- sec or less.	26n- sec or less	—
2. RF level (eye pattern) check	<ul style="list-style-type: none"> <li>•Measuring instrument :Oscilloscope</li> <li>•Test point :TP601(GND side) :TP602(ARF side)</li> <li>•Test disc :CTS-1000</li> </ul>	Connect the oscilloscope between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that peak-to-peak value of oscilloscope waveform is within $1.1V \pm 0.2V$ .	within $1.1V \pm 0.2V$ .	—
		<p style="text-align: center;">Eye-pattern waveform</p>  <p>The maximum value of this waveform should be in the range of specifications and the waveform should be clear</p>		
3. Outer most area check	<ul style="list-style-type: none"> <li>•Test disc :CTS-1000</li> </ul>	Select "Track 26 "on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error.		—
4. Pickup unit movement check (From the outer area to the inner area	<ul style="list-style-type: none"> <li>•Test disc :CTS-1000</li> </ul>	Allow the pickup to skip over from the disc's outer most area to " Track 1" and check that it takes within 10 seconds for the player to enter play mode.	within 10 seconds	—

## 7.Trouble Shooting

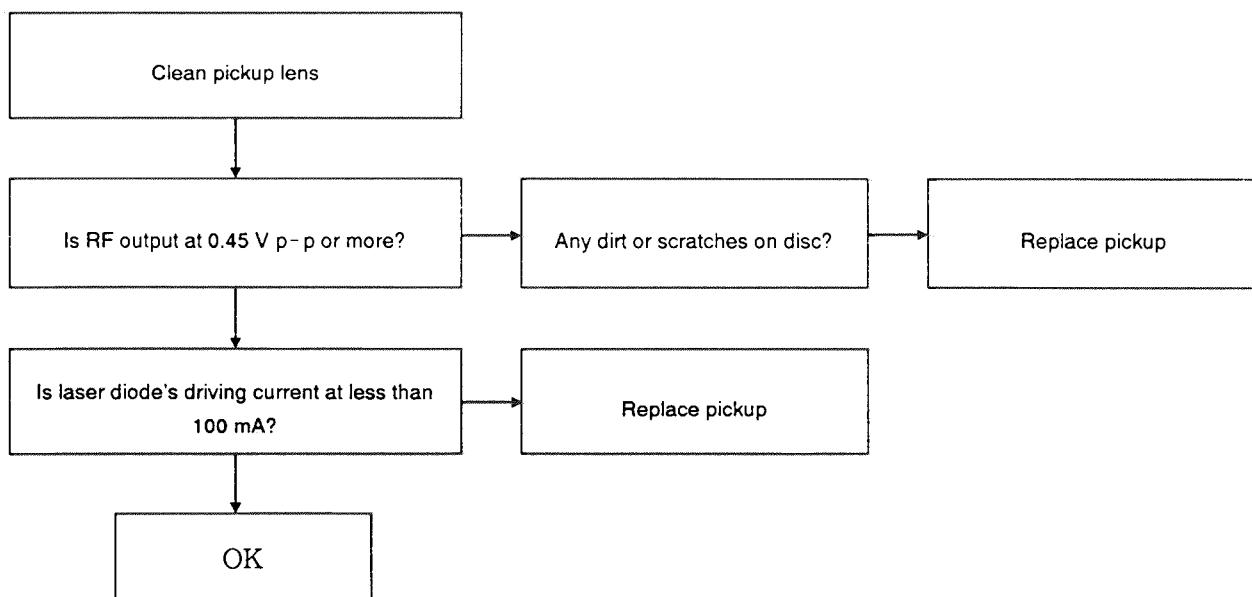
### ■ Pickup maintenance

#### (1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickup lens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between IC601 ⑦ and ⑩(GND)) lowers.
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R614 at  $10\ \Omega$ .)

◆ Following the flow chart shown below, check the service life.



◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R614( $10\ \Omega$ ), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R614 (V)/ $10\ (\Omega)$

When voltage level is at 1.0 V:

$1.0\ V/10\ \Omega = 0.1\ A = 100\ mA$

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

## ◆ HOW TO OPERATE THE CD SELF-DIAGNOSIS FUNCTION

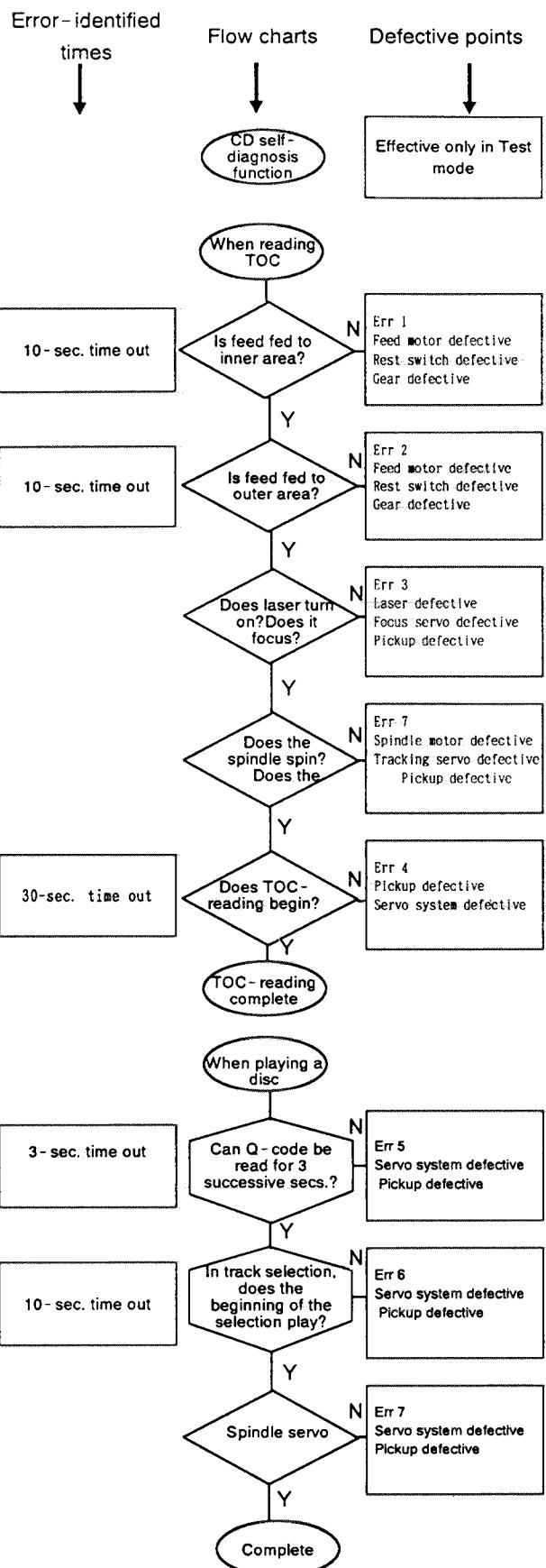
### ◆ The CD Self-diagnosis Function

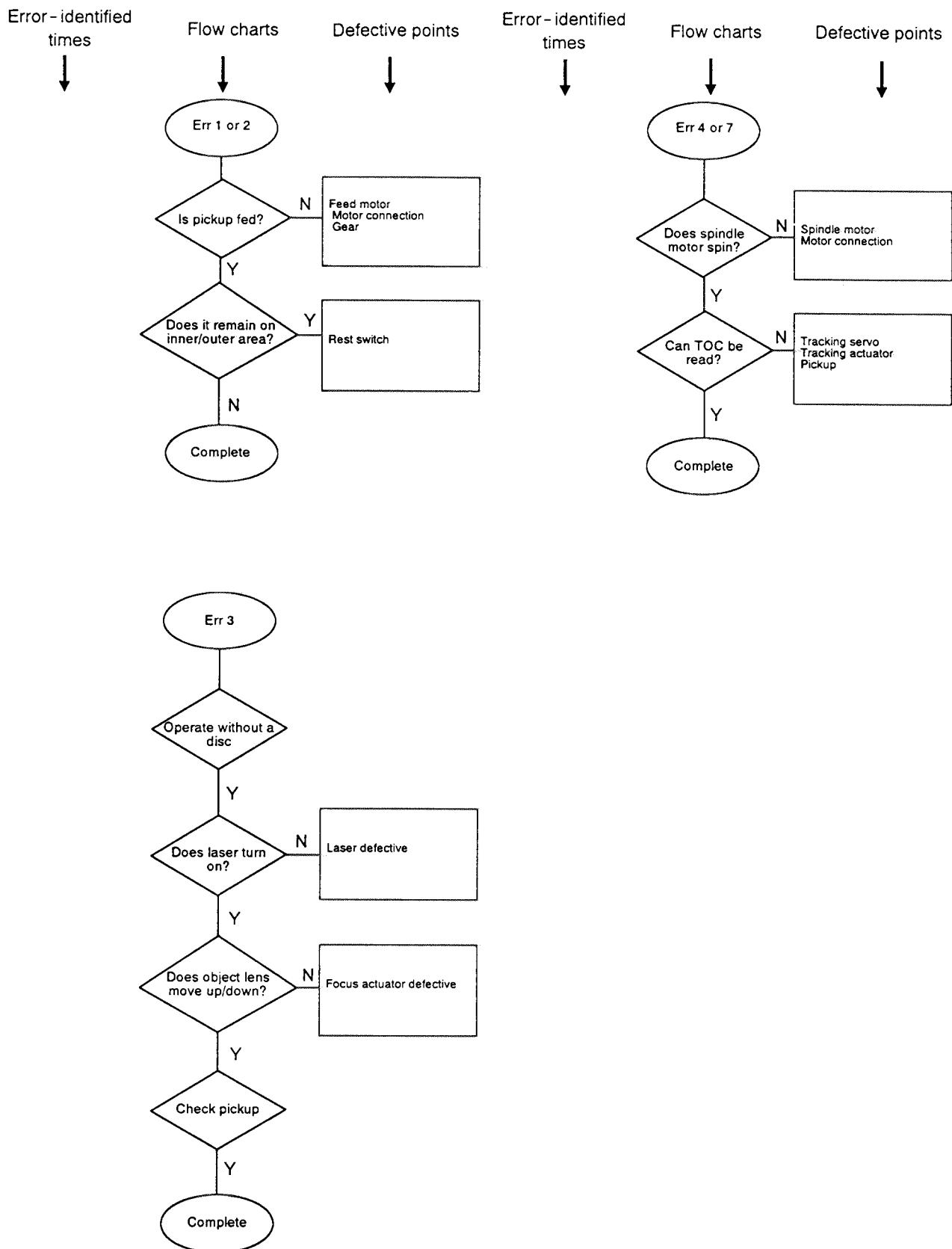
If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

#### 1. Operation

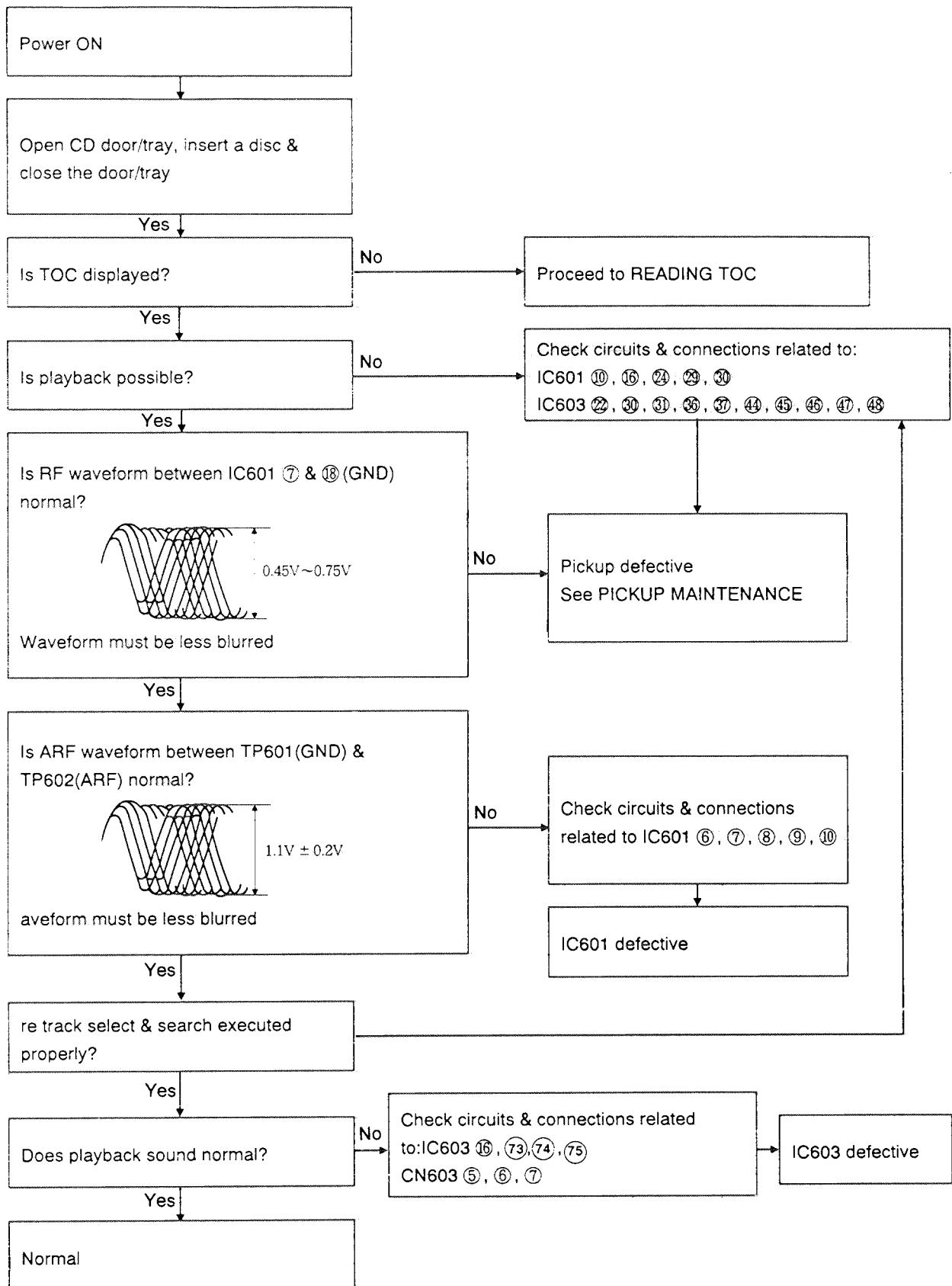
- ① Press the three **[CLEAR]**, **[+10]** and **[POWER]** buttons on the remote control to enter the Test mode. (Then the illuminating portions of the LCD all light up together. This indicates that the system has entered the Test mode.)
- ② Play a CD. If the operation is defective in any way, an error code should appear on the LCD.
- ③ Identify the point of malfunction in accordance with the error code displayed.

#### 2. Error codes & defective points

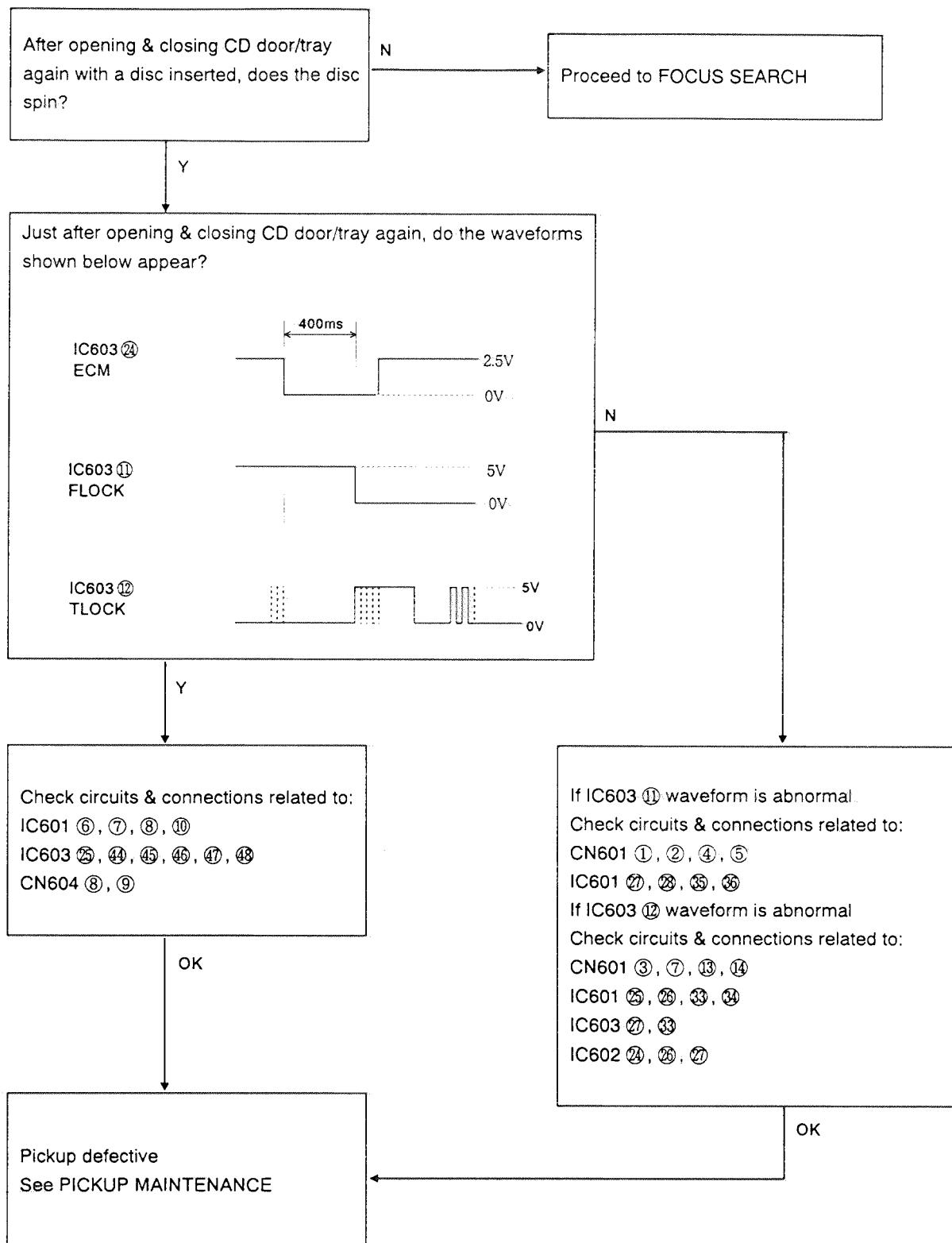




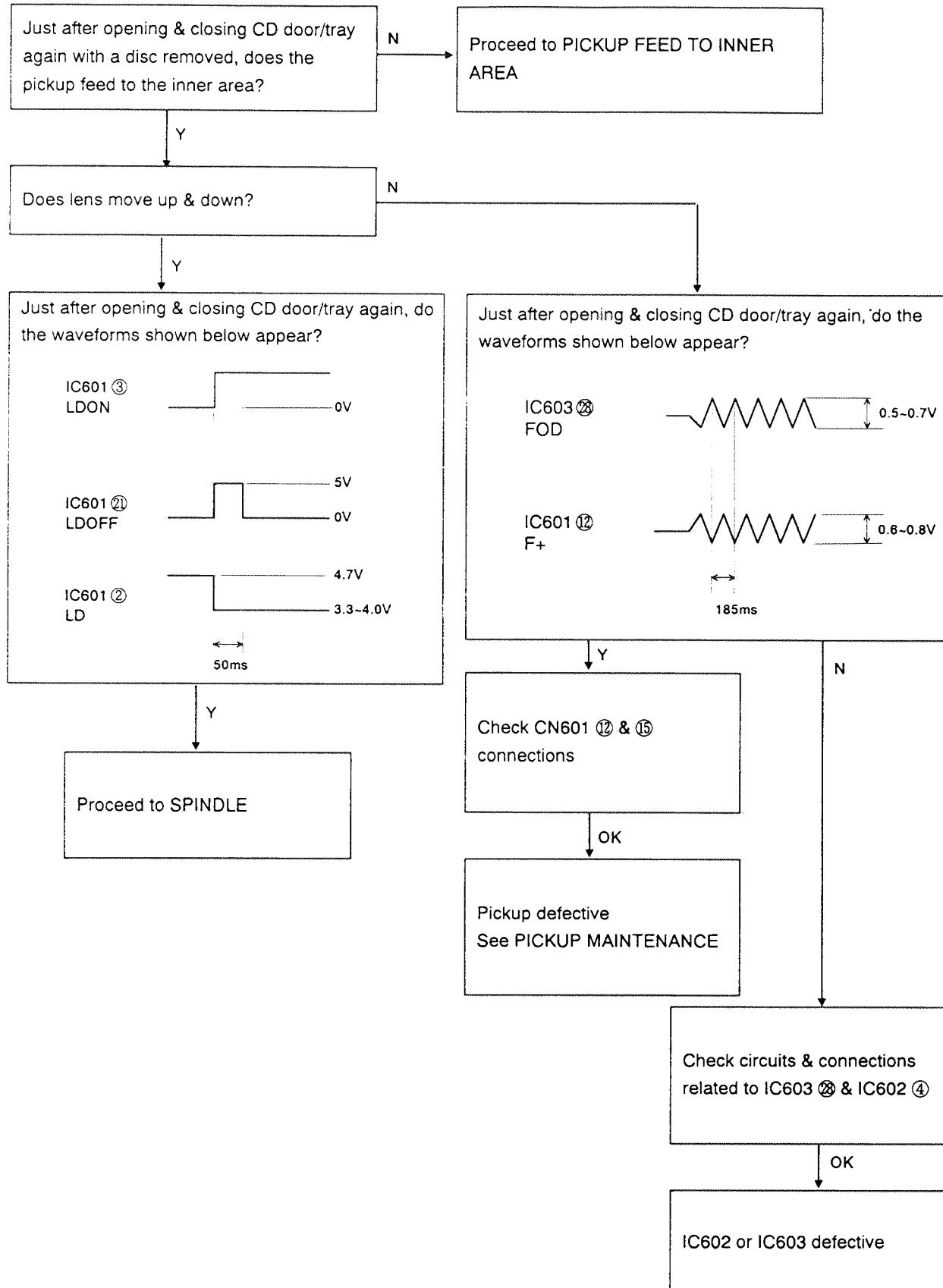
## ◆ General



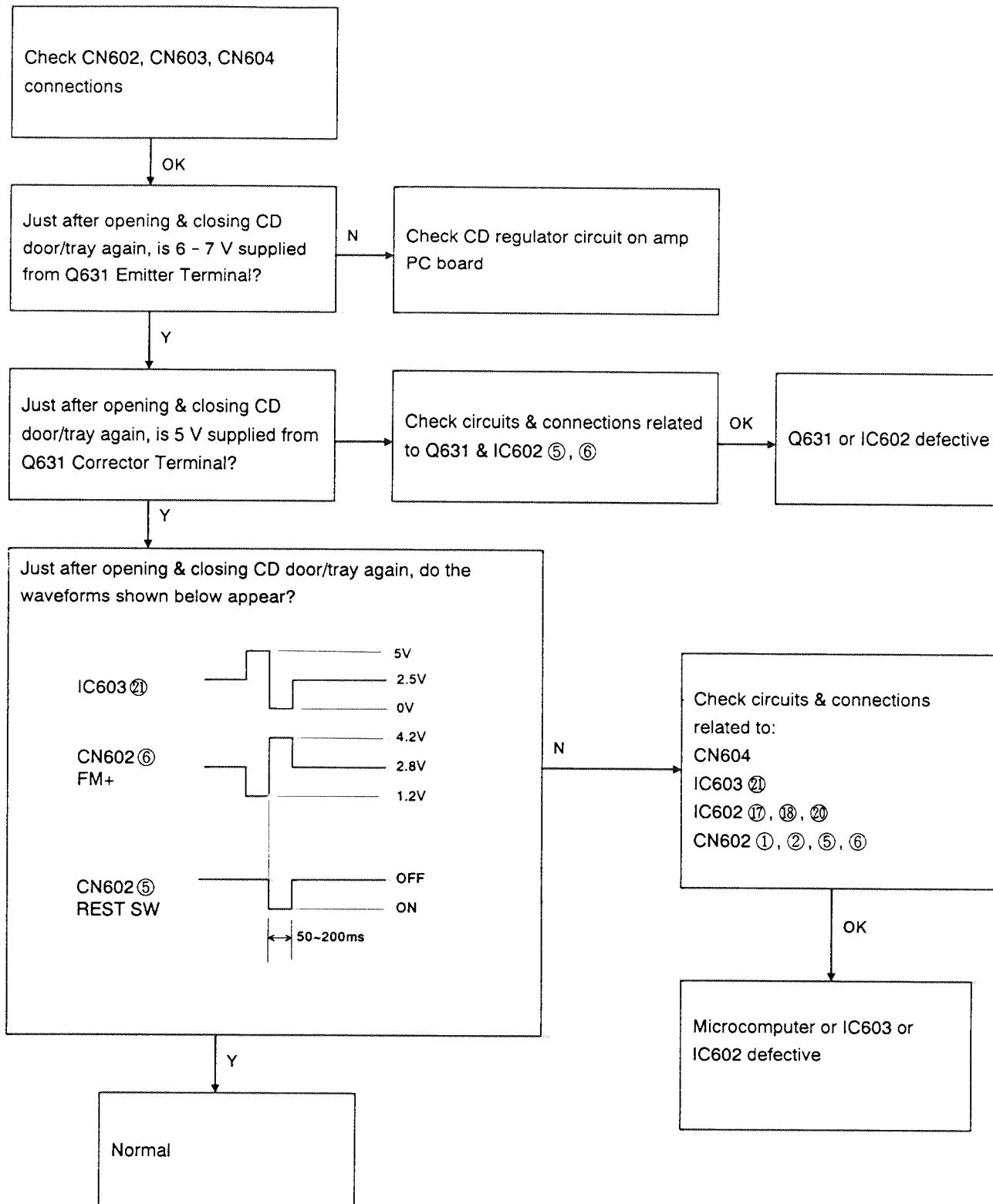
## ◆ Reading TOC



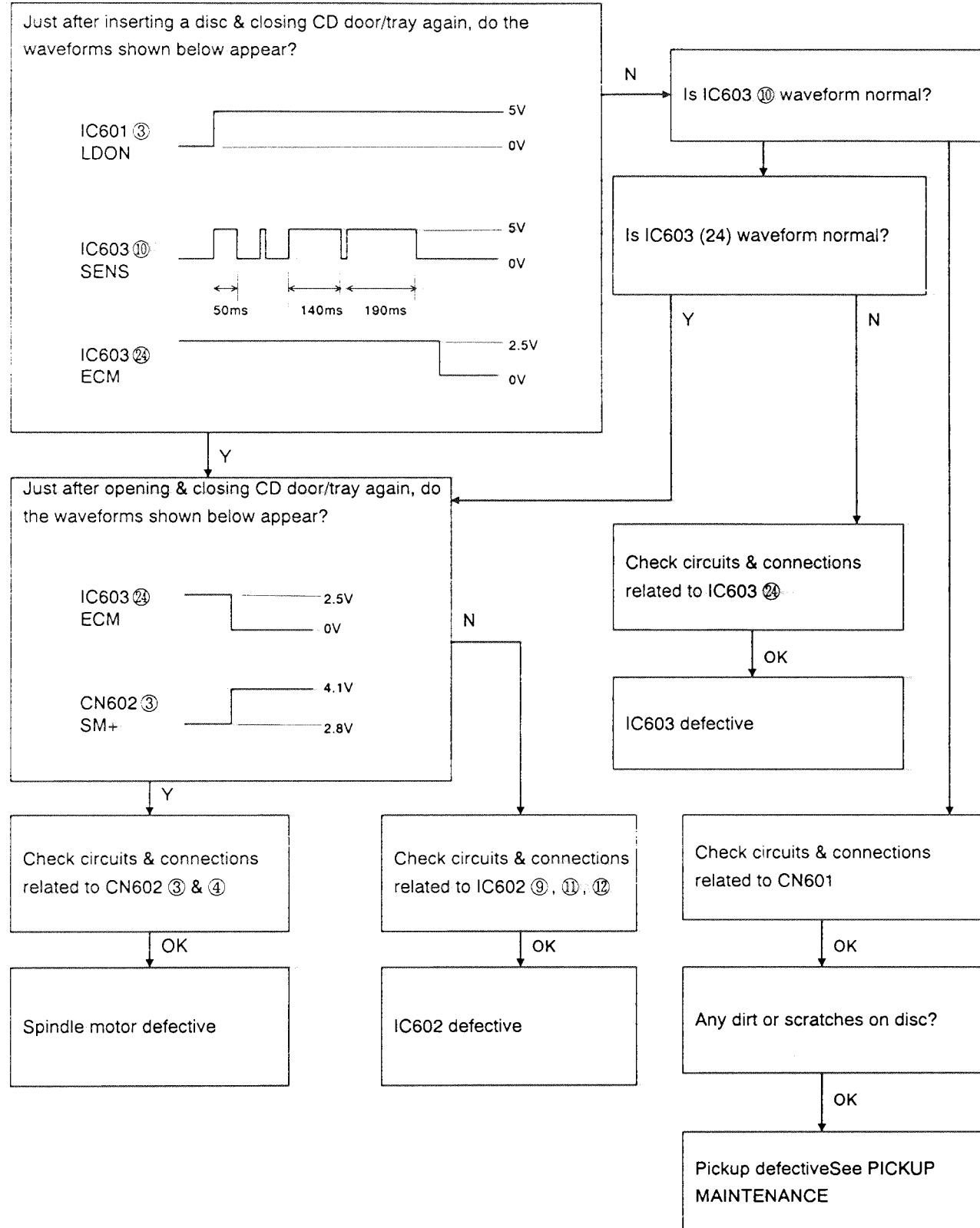
## ◆ Focus search



◆ Pickup feed to inner area



## ◆ Spindle



## 8. Main IC Block Diagram

### ■ Integrated circuit diagram

#### ■ IC2 (LC72136) PLL

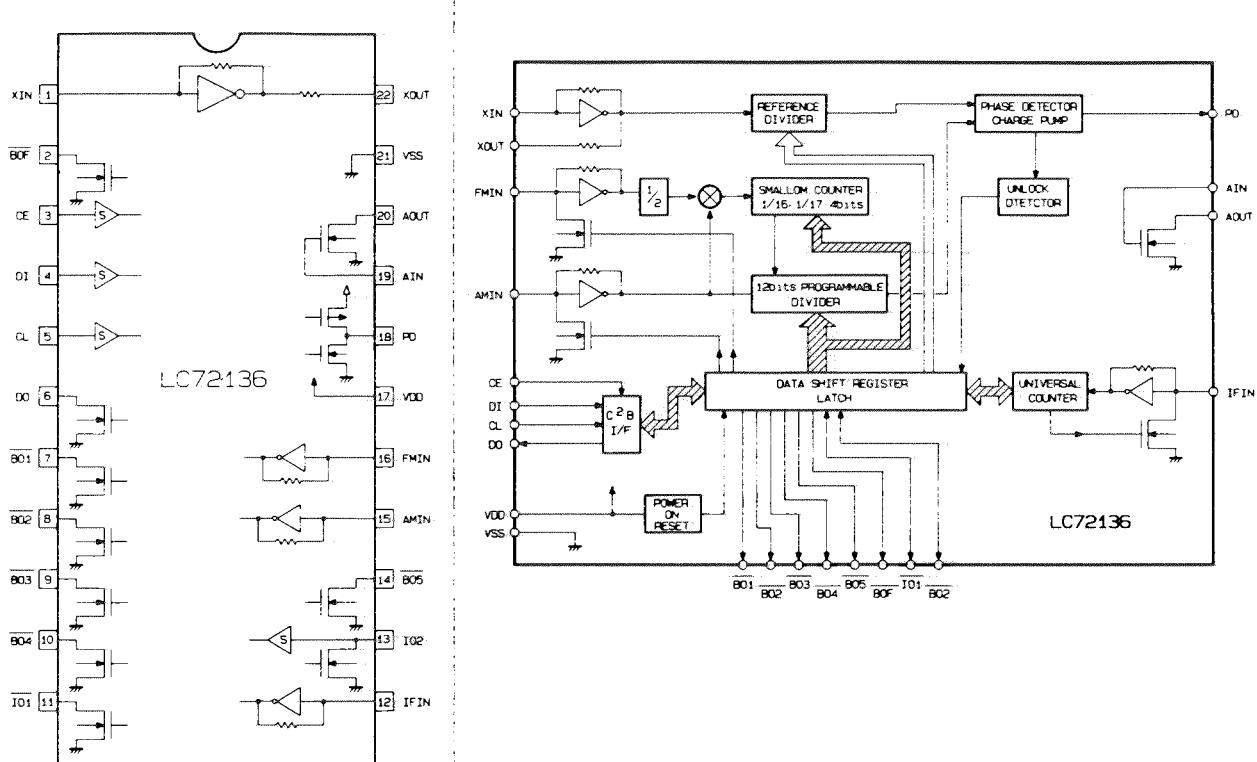


Fig. 8-1

#### ■ IC1 (TA2057N) IF & MPX

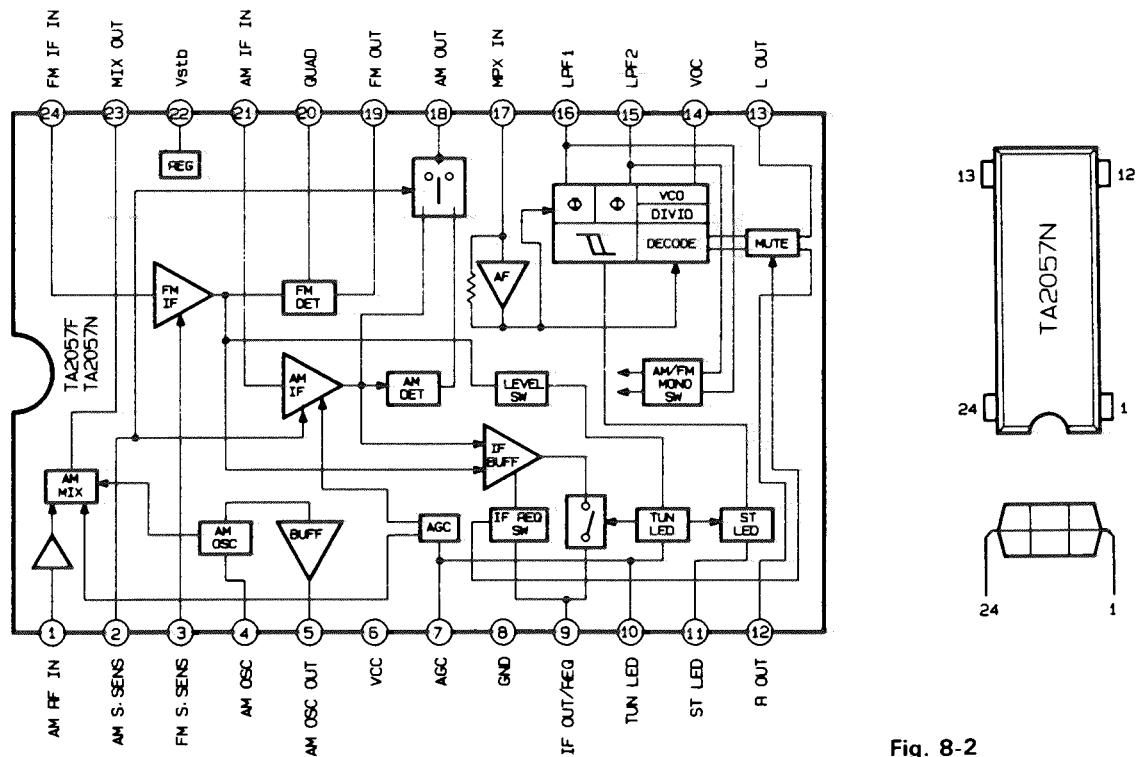
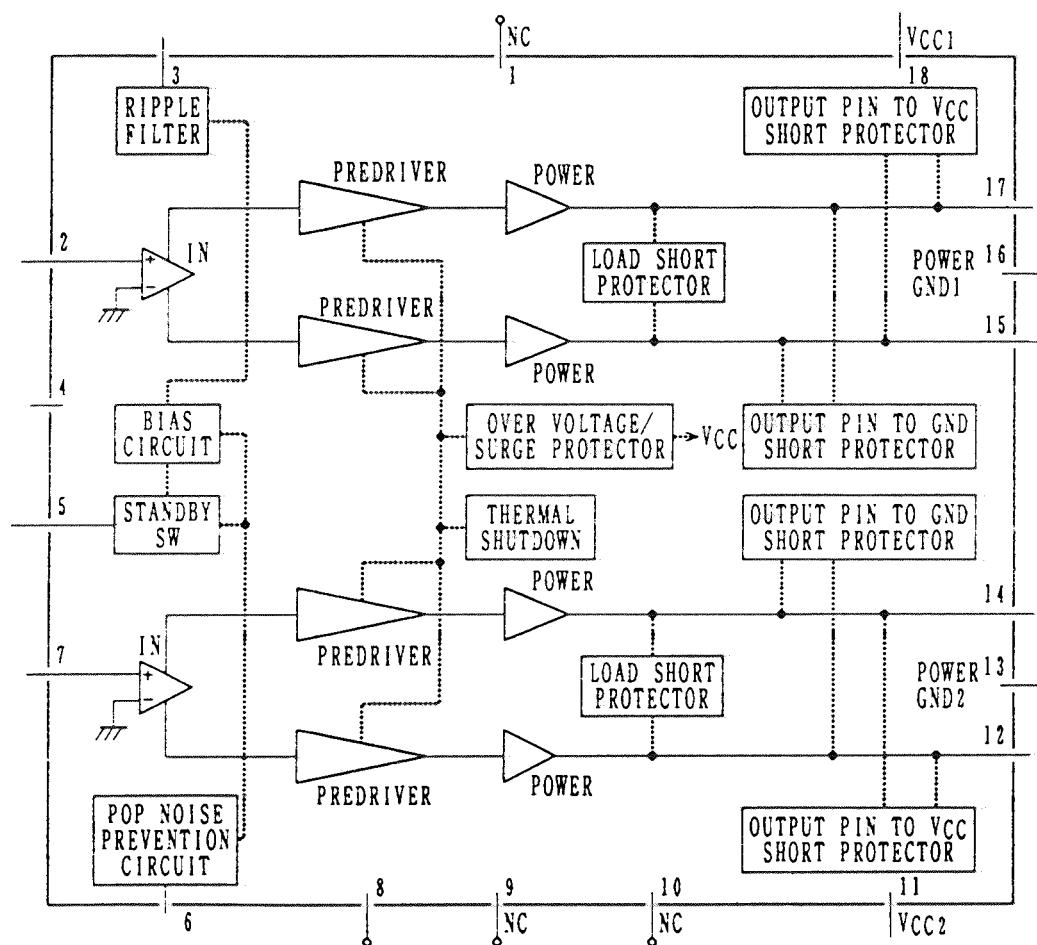


Fig. 8-2

## ■ IC31: LA4705NA (POWER AMPLIFIER)



## ■ IC701 : UPD78063GF Terminal's Function Table

Pin No.	Symbol	I/O	Function
1	SDATA	I/O	Serial data ( TUNER PLL )
2	SCK	0	Serial clock ( TUNER PLL )
3	SUBQ	I	CD Q cord data
4	NC	0	Non connection
5	SQCK	0	Sincro clock of CD Q cord data
6	IC		Connect to Vss
7	X2		Main system clock 4.19MHz
8	X1	I	Main system clock 4.19MHz
9	Vdd		Power source
10	XT1	I	Sub system clock 32.768kHz
11	XT2		Sub system clock 32.768kHz
12	RESET	I	Reset
13	REM	I	Remote control unit
14	RDS CLOCK	I	Sincro clock of RDS data
15	VOL A	I	Volume encoder A
16	BEAT 2	0	Main clock selecttor 2
17	BEAT 1	0	Main clock selecttor 1
18	+ BCTL	0	Switched 5V control (H = 5V off)
19	XRESET	0	CD LSI reset
20	MCLK	0	CD LSI comand clock
21	MDATA	0	CD LSI comand data
22	MLD	0	CD LSI comand load
23	MTO	0	CD door motor
24	MT1	0	CD door motor
25	DIMMER	0	Backlight brilliant (H = normal,L = dimmer)
26	F.AUX	0	Fuction AUX (L = by AUX)
27	AVss		AD convertor ground
28	SAFETY2	I	Detection 2 for avnormal power voltage
29	DOOR	I	Reset/open/close switch
30	SAFETY1	I	Detection 1 for avnormal power voltage
31	SAFETY0	I	Detection 0 for avnormal power voltage
32	KEY 1	I	Set key input 1
33	KEY 0	I	Set key input 0 (Inclued to Version select)
34	MTS	0	Door motor speed (L = Normal, H = Slow)
35	LO.MUTE	0	Line out mute
36	AVdd		Power source for AD convertor (Vdd = same)
37	AVref		Reference power voltage for AD convertor
38	BUP	I	Distinction of backup power source (H = Backup)
39	F.TUNER	0	Function Tuner
40	Vss		Ground

Pin No.	Symbol	I/O	Function
41	MPX	I	Detection of FM stereo (L = Stereo)
42	PERIOD	0	Stolove of Tuner PLL
43	VOL B	I	Volume encoder B
44	BASS	0	Bass control (PWM)
45	TRE	0	Treble control (PWM)
46	VOL	0	Volume control (PWM)
47	S.BASS	0	S.BASS ON/OFF (ON = L, OFF = H)
48	S.MUTE	0	System mute (mute = L)
49	P.OUT	0	Power on/off
50	F.CD	0	Function CD (CD = L)
51	COM 0	0	LCD Remote control unit terminal 0
52	COM 1	0	LCD Remote control unit terminal 1
53	COM 2	0	LCD Remote control unit terminal 2
54	COM 3	0	LCD Remote control unit terminal 3
55	BIAS		LCD bias power voltage
56	VLC 0		LCD bias power voltage
57	VLC 1		LCD bias power voltage
58	VLC 2		LCD bias power voltage
59	Vss		Ground
60	S0	0	LCD segment 0
61	S1	0	LCD segment 1
62	S2	0	LCD segment 2
63	S3	0	LCD segment 3
64	S4	0	LCD segment 4
65	S5	0	LCD segment 5
66	S6	0	LCD segment 6
67	S7	0	LCD segment 7
68	S8	0	LCD segment 8
69	S9	0	LCD segment 9
70	S10	0	LCD segment 10
71	S11	0	LCD segment 11
72	S12	0	LCD segment 12
73	S13	0	LCD segment 13
74	S14	0	LCD segment 14
75	S15	0	LCD segment 15
76	S16	0	LCD segment 16
77	S17	0	LCD segment 17
78	S18	0	LCD segment 18
79	S19	0	LCD segment 19
80	S20	0	LCD segment 20





## 9. Block Diagram

1 2 3 4 5

■ UX-2000GD

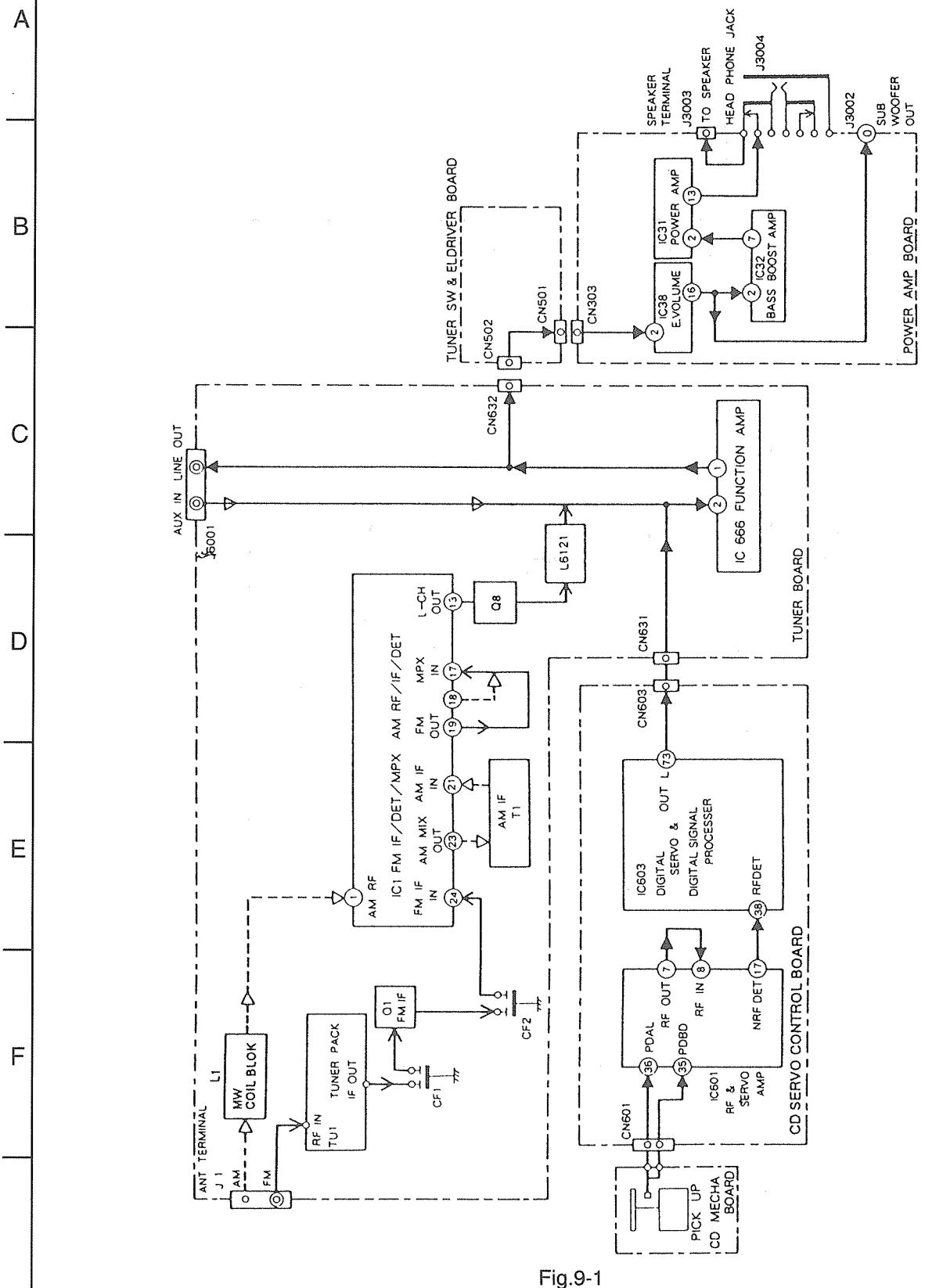


Fig.9-1

## 10. Wiring Connections

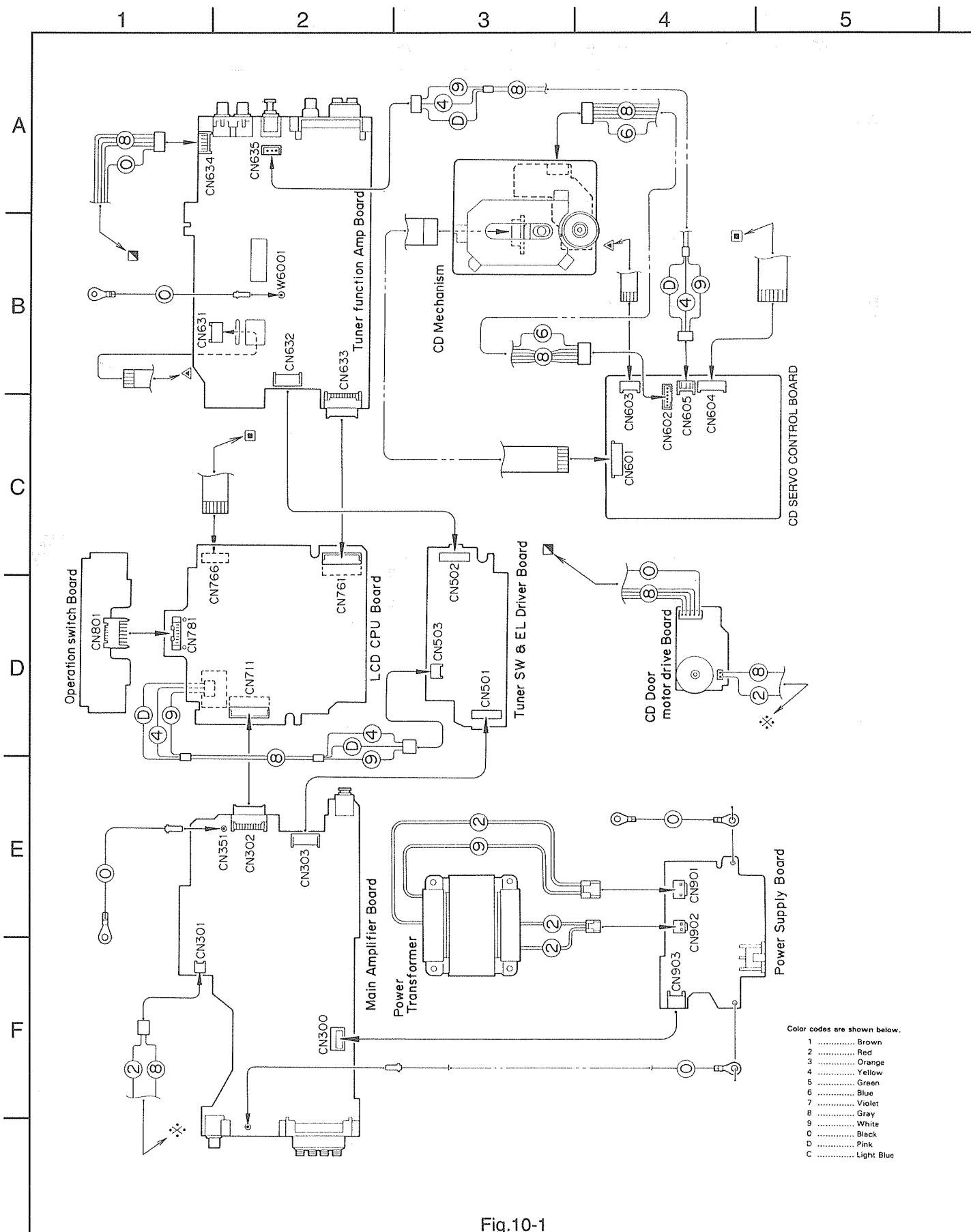
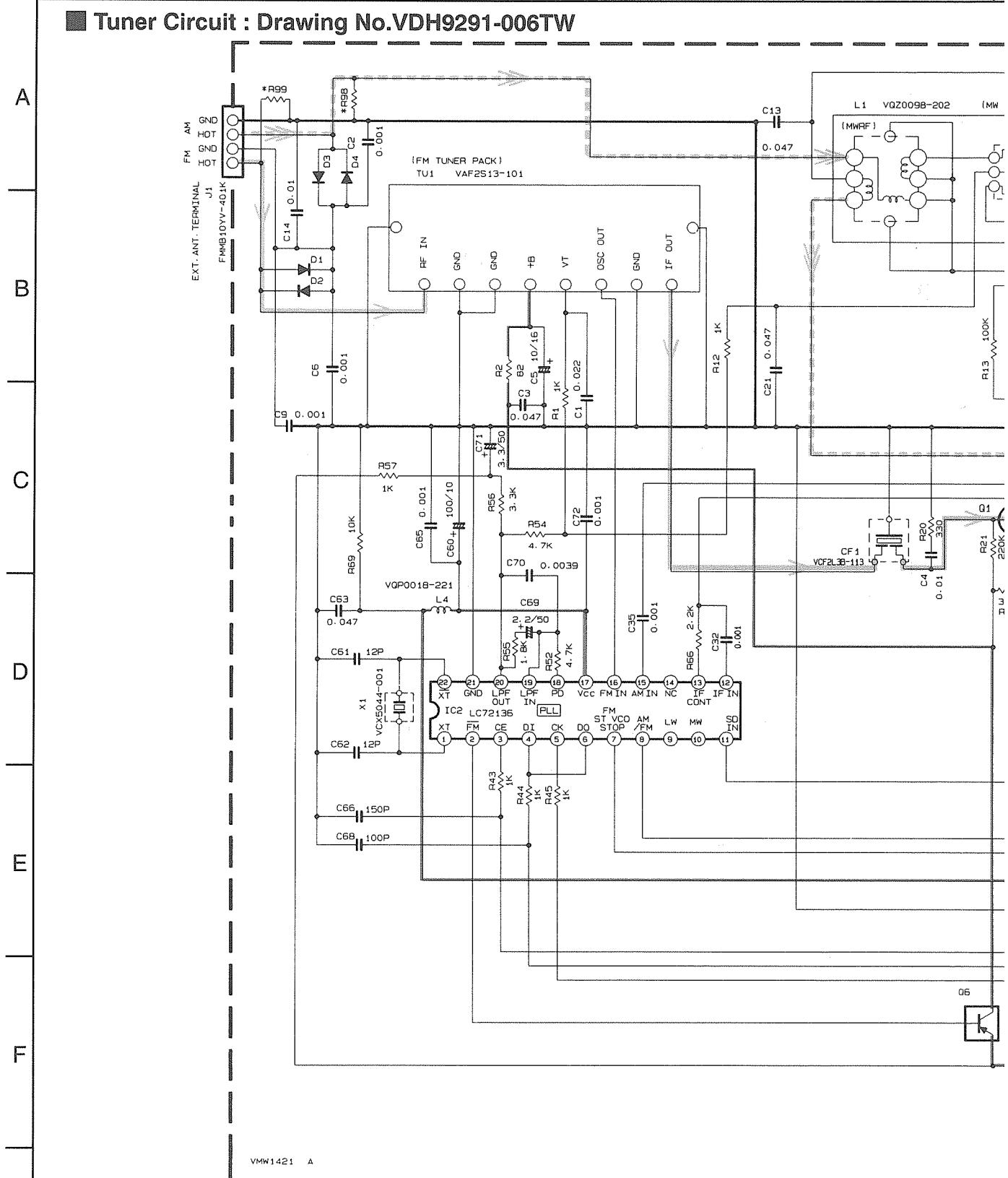


Fig.10-1

## 11. Standard Schematic Diagrams

1                    2                    3                    4                    5



	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.2	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.6	3.9	3.9	1.4	0	1.3	1.1	2.0	2.0	5.2	2.0
	FM 50dB STEREO	2.0	0.5	0	2.0	5.2	5.2	1.1	0	0.3	0	0	1.1	1.1	4.5	4.1	3.9	1.4	0	1.4	1.1	2.0	2.0	5.2	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.8	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	4.9	5.1	3.9	3.9	0	0	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7		

TR  
PIN  
FM 76.0MHZ  
AM 531KHZ

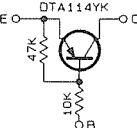
Note : VDH9291006TW

## NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPACITANCE VALUES ARE IN μF(μF<sub>PF</sub>F).
5. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
6. SI.DIODES(▶) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.

Q1	2SC2668(0)	06	DTA114YKA-X
Q7, 8	2SA1037K(R)T146		

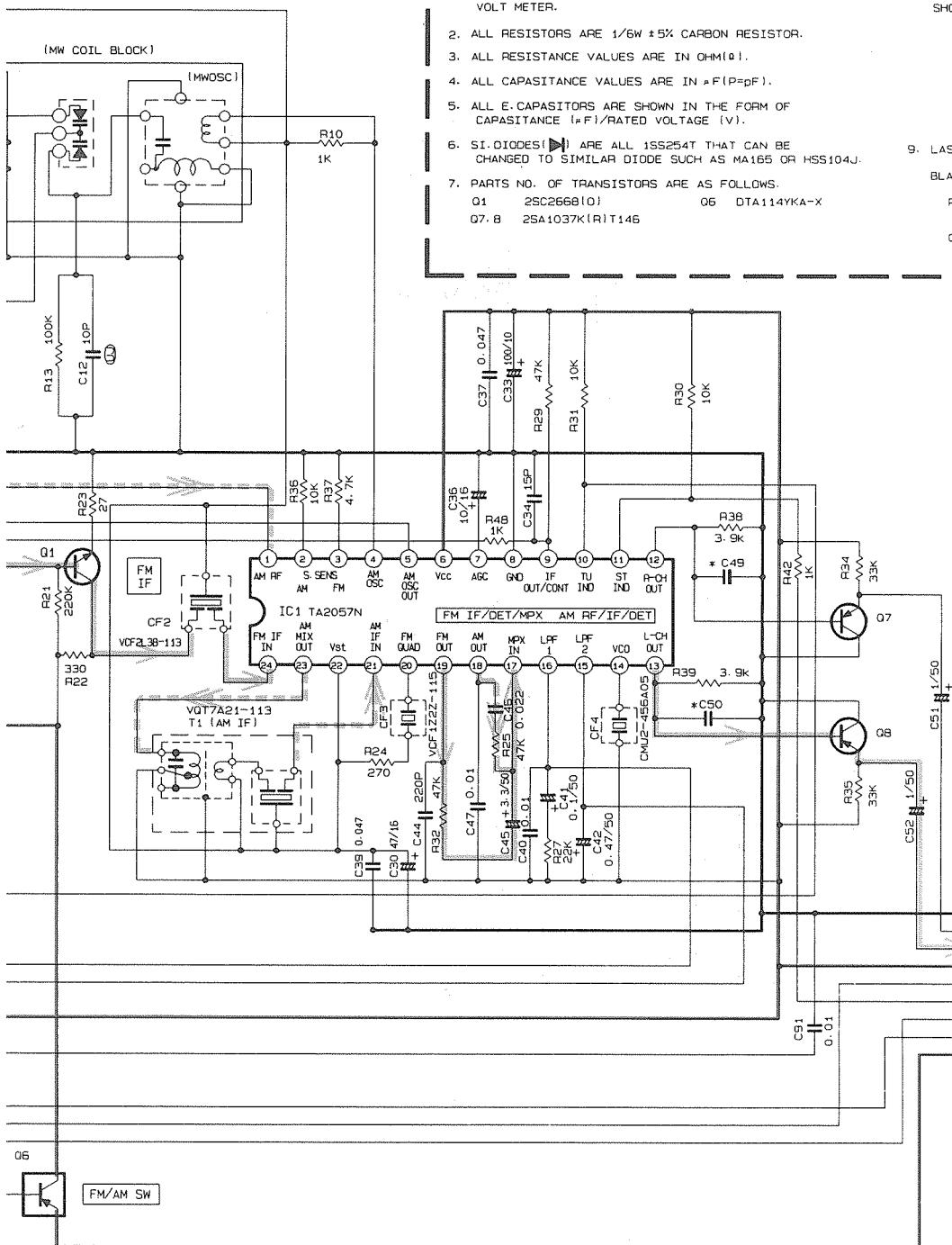
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



9. LAST NO. R99-C91

BLANK NO.

R 4-9, 11, 14-19, 26, 28, 33, 40, 41,  
46, 47, 49-51, 53, 58-64, 67, 68, 70-97  
C 7, 8, 10, 11, 15-20, 22-29, 31,  
38, 43, 48, 53-59, 64, 67, 73-90



## \*MARK PARTS LIST

VERSION	J/C	I/UB/US/UT
C49/50	0.022	0.015
R98/99	2.2M 1/2W	NO USE

Tr. NO.	Q1			Q5			Q7			Q8		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B
FM 76.0MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1
AM 531kHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1

FM Radio signal

AM Radio signal

+B Line

Fig.11-1

1 2 3 4 5

■ CD Servo Control Circuit : Drawing No.VDH1010-001CW

A

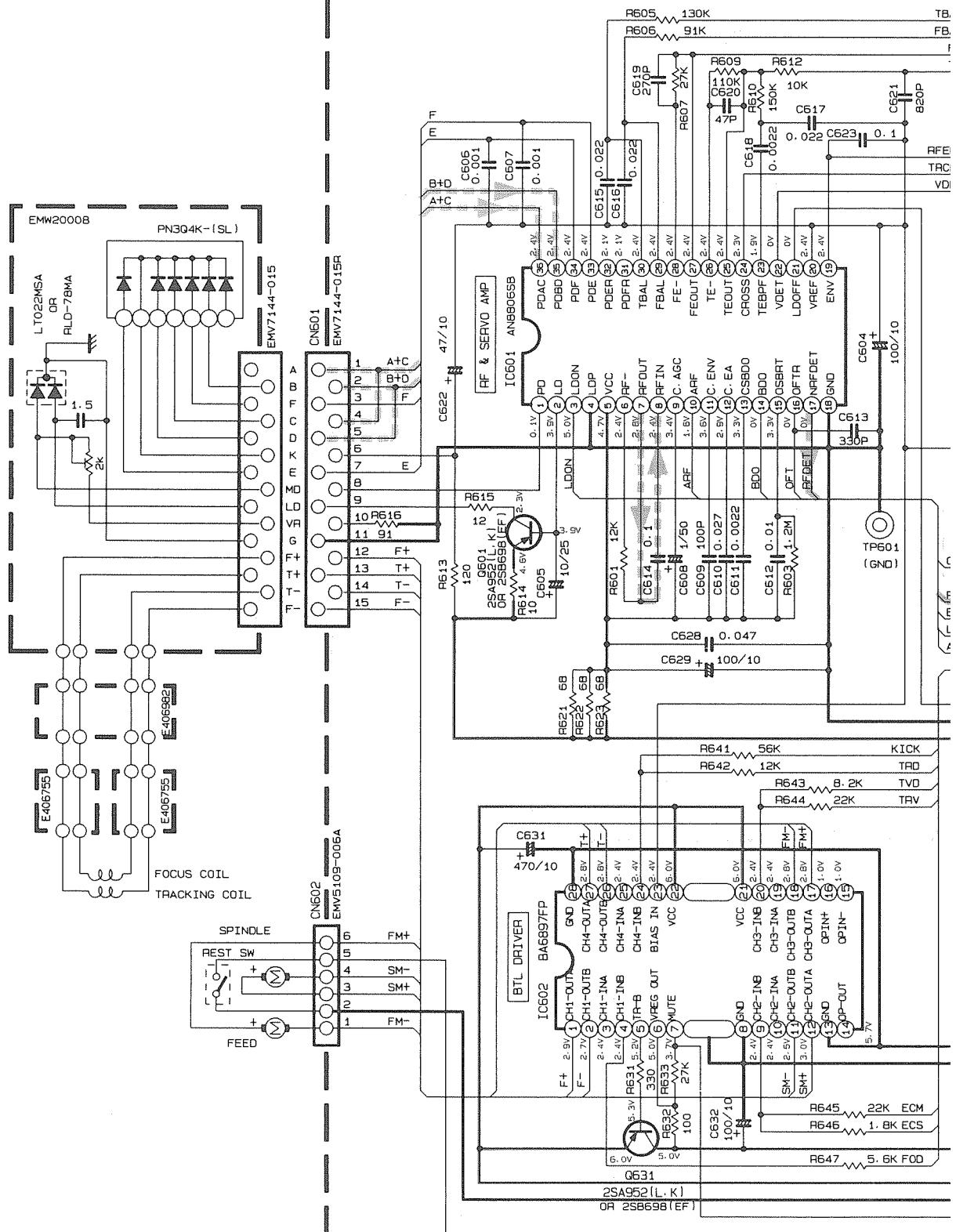
B

C

D

E

F



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/16W  $\pm 5\%$  CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN  $\Omega$ .
3. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN  $\mu F$  ( $P = pF$ ).
4. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE ( $\mu F$ ) / RATED VOLTAGE (V).

Note : VDH1010001CW

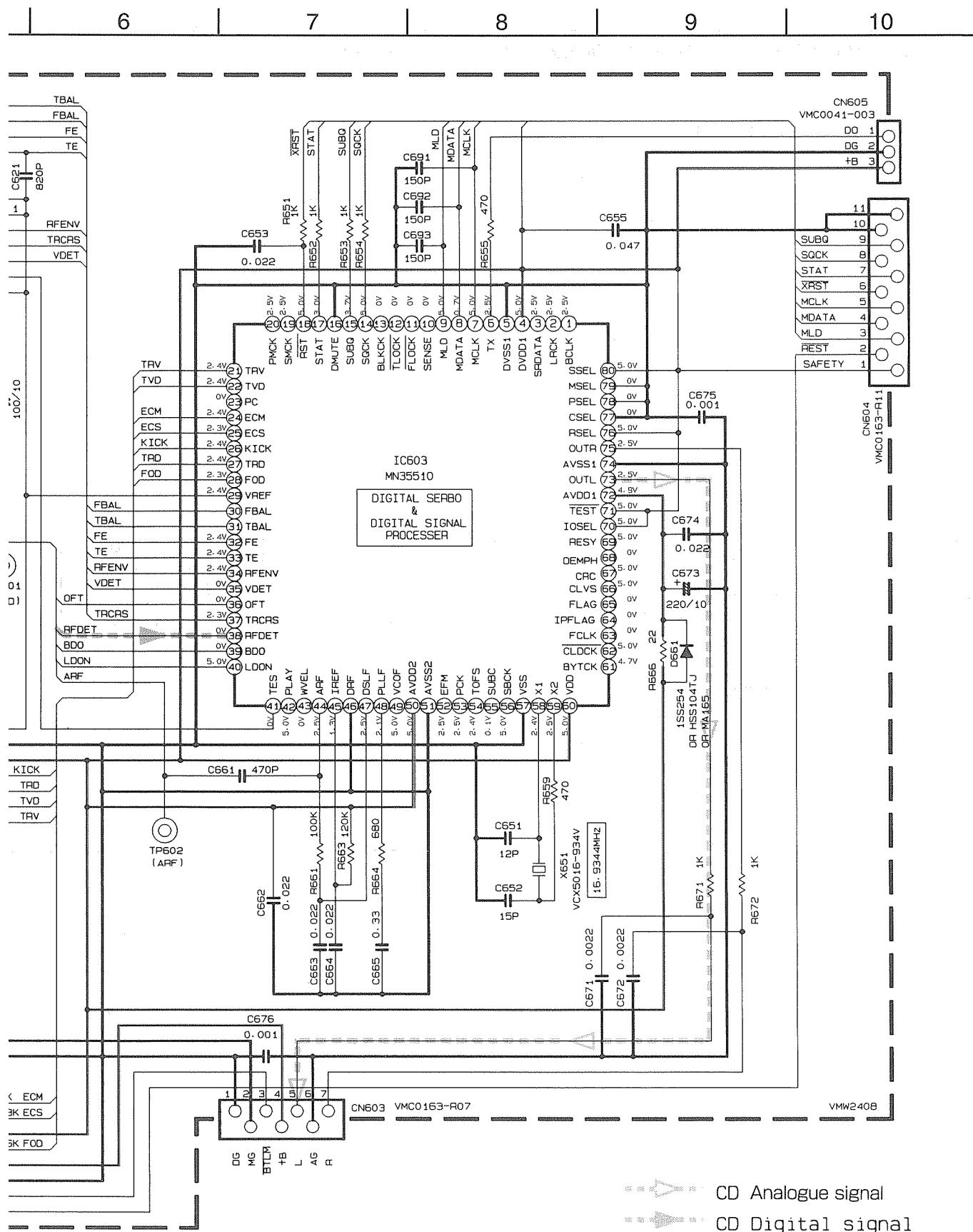


Fig.11-3

CD Analogue signal

CD Digital signal

+B Line

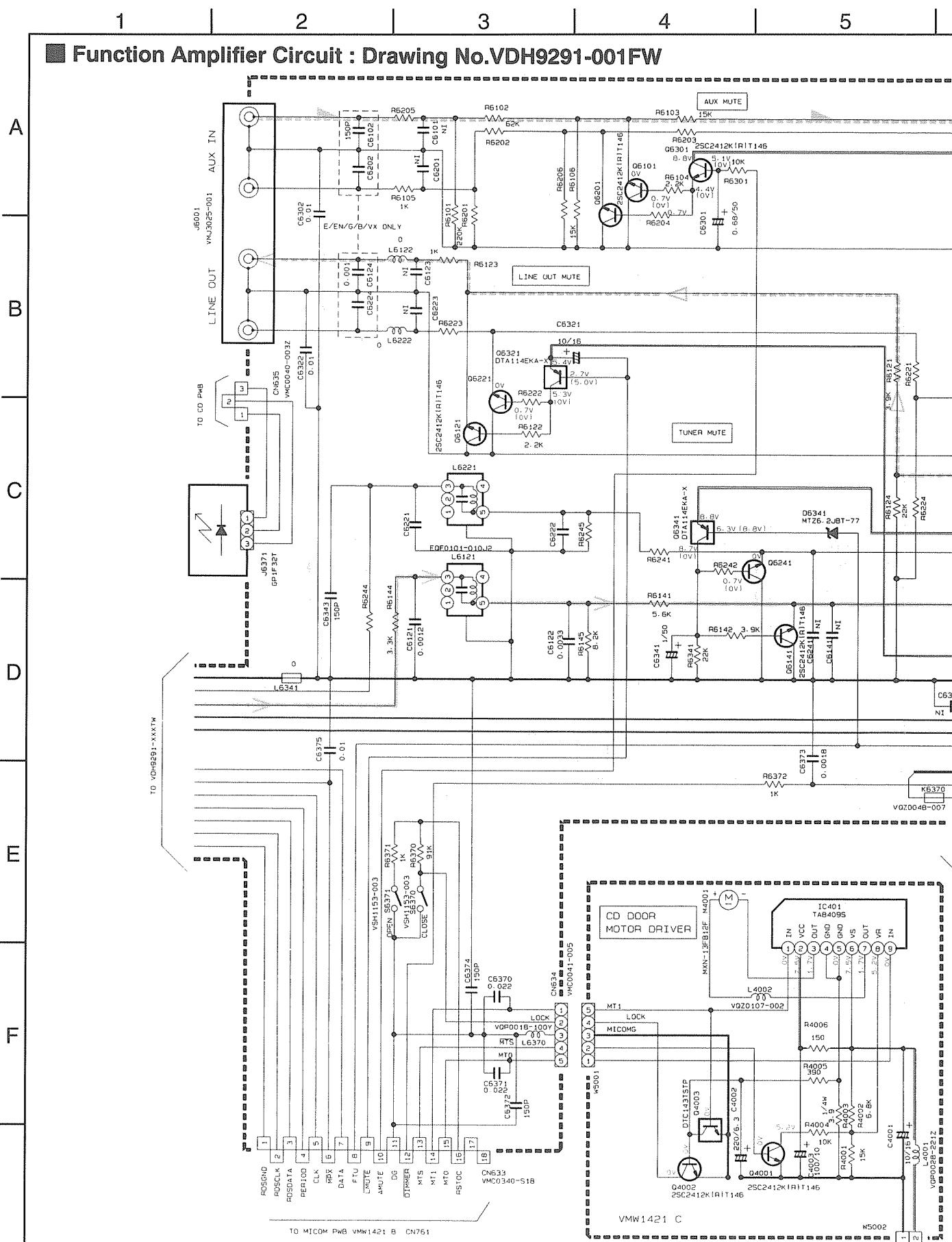
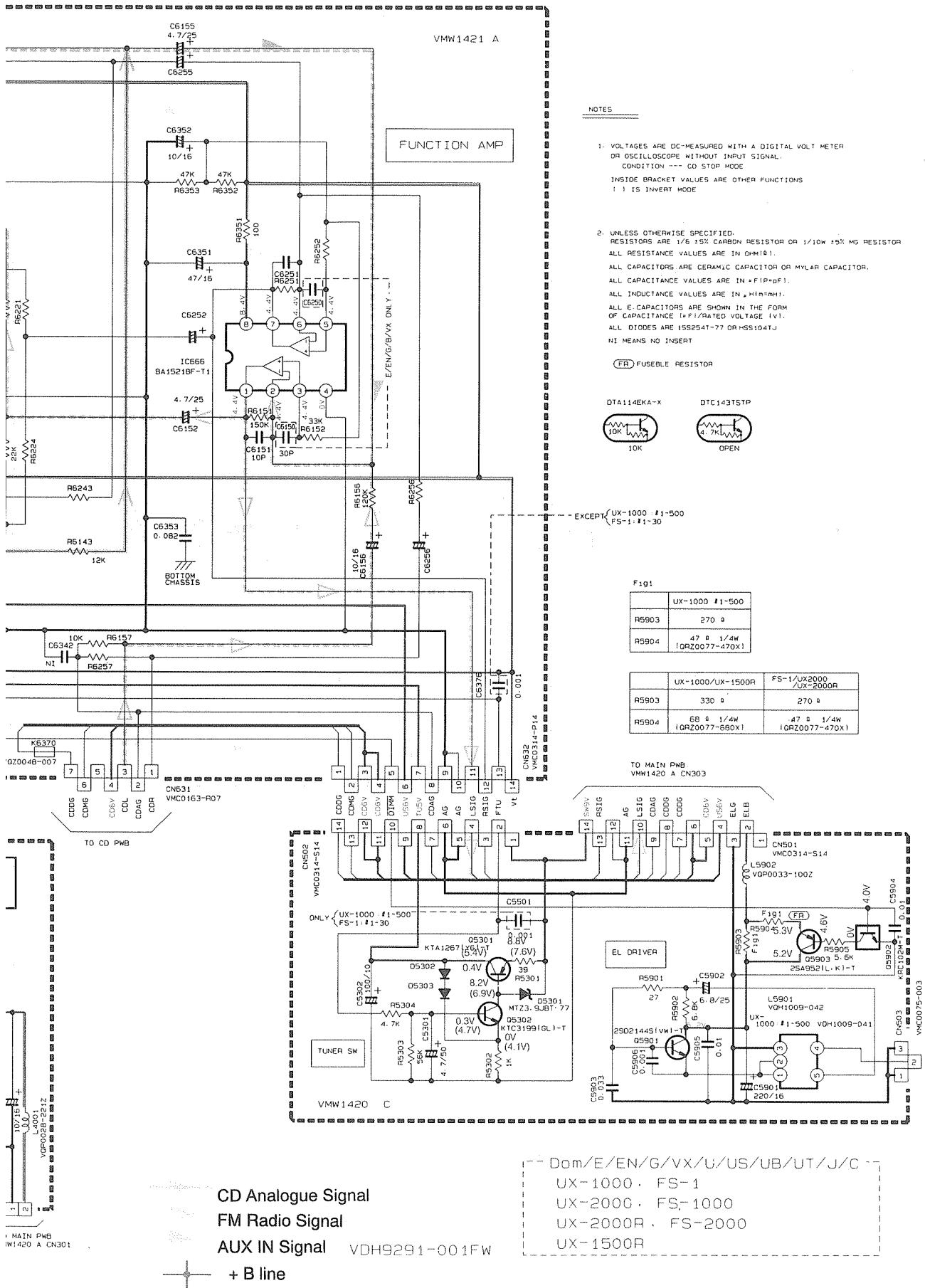
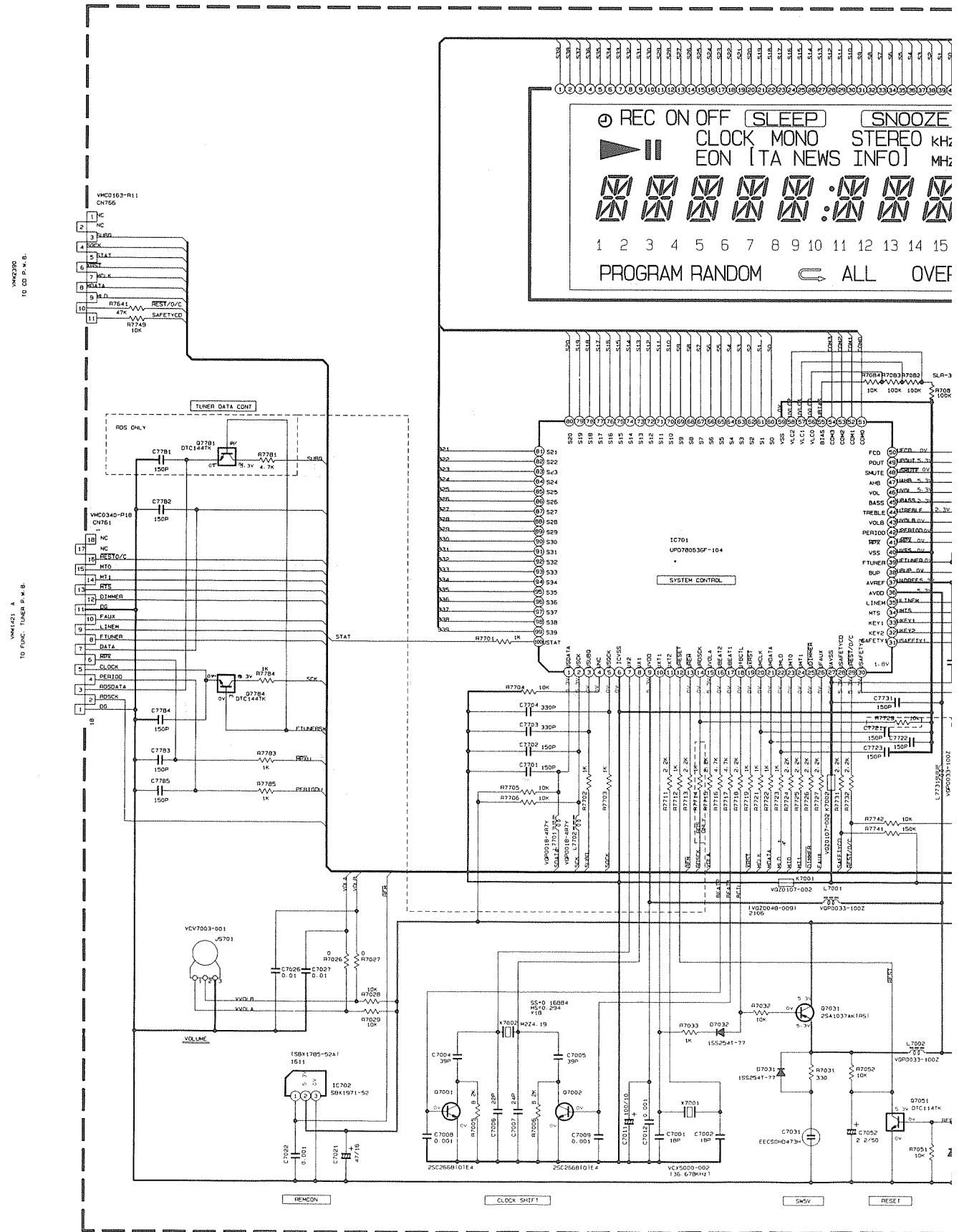


Fig.11-4



■ LCD&System CPU Circuit : Drawing No.VDH9291-001SV



6

7

8

9

10

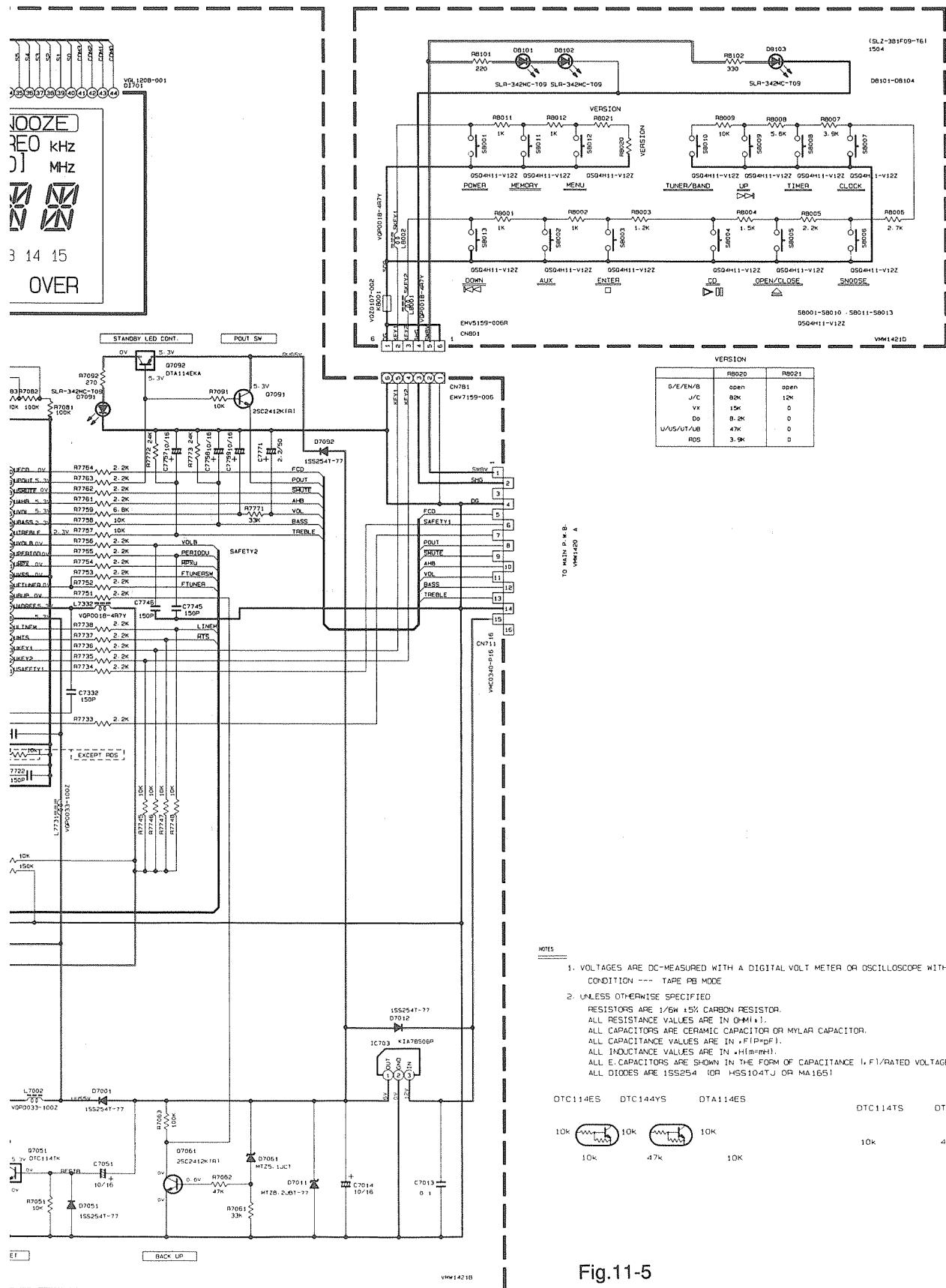


Fig.11-5

+B Line

1 2 3 4 5

■ Power Supply&Power Amplifier Circuit : Drawing No.VDH9291-023AW

A

B

C

D

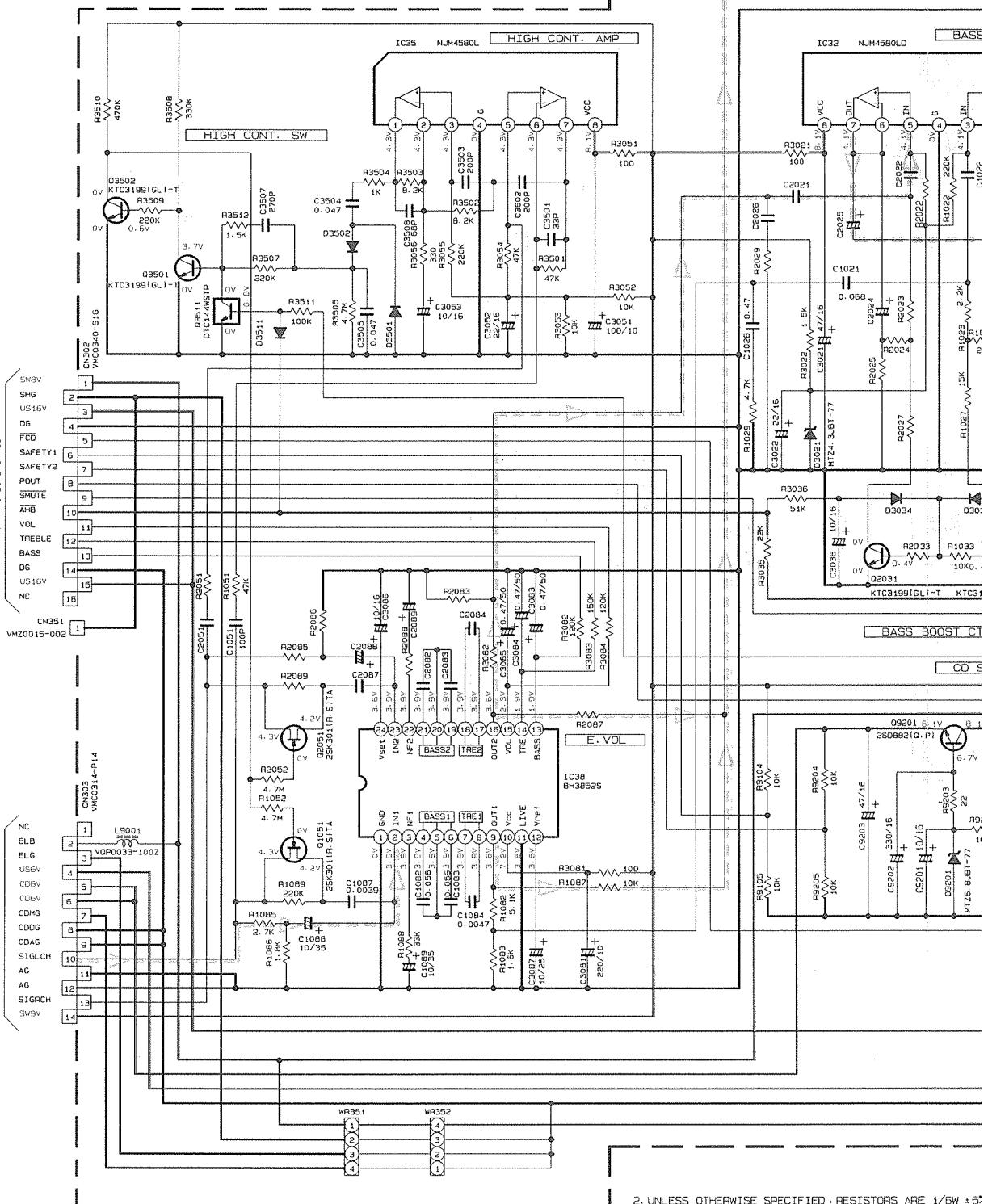
E

F

TO VM41421 &amp; CN711

TO VM41420 C CN501

VM20015-002

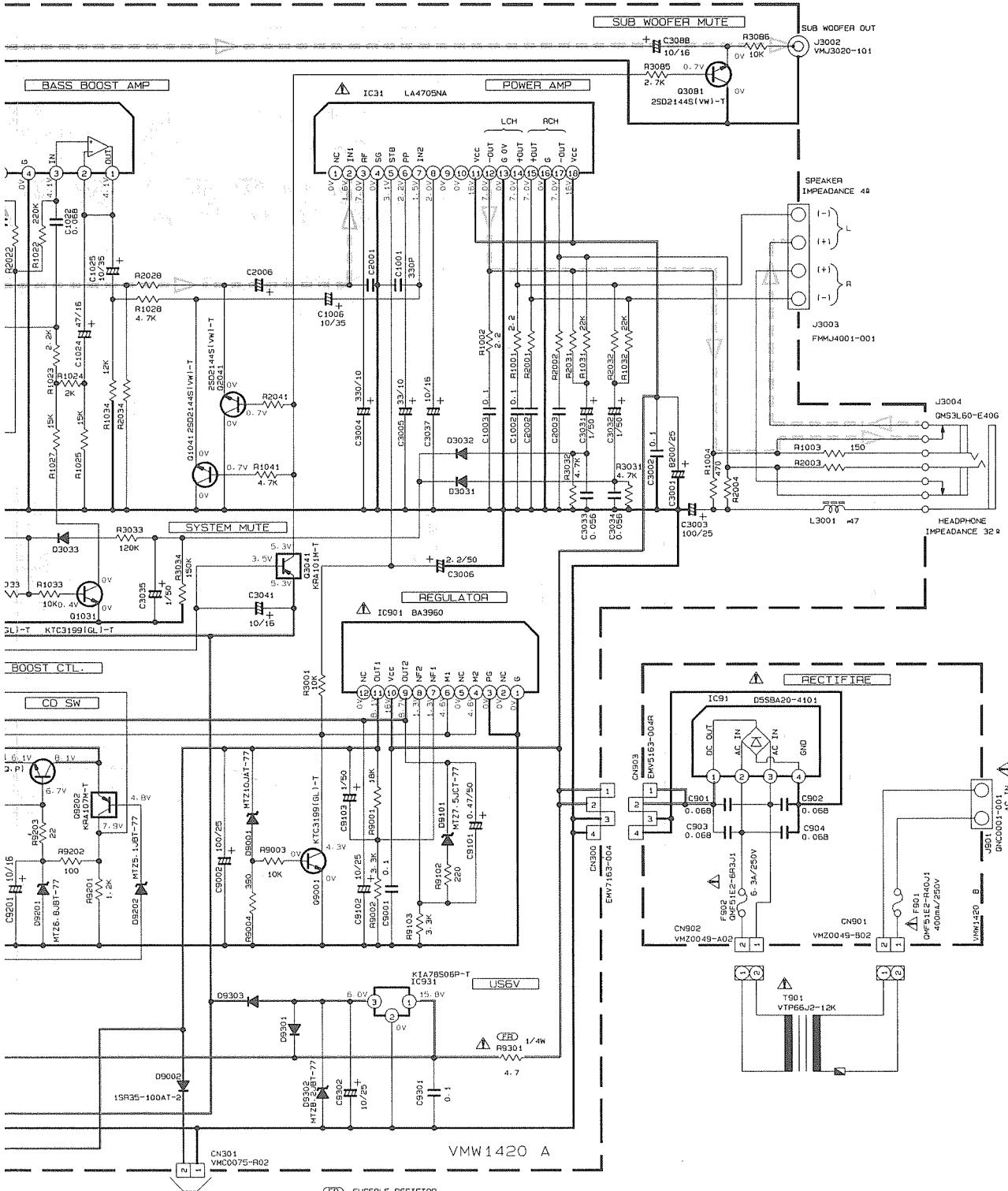


## NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER  
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION --- FUNC. CD STOP MODE

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W  $\pm 5\%$ .  
ALL RESISTANCE VALUES ARE IN  $\Omega$ .  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR C.  
ALL CAPACITANCE VALUES ARE IN  $\mu\text{F}$  ( $\text{P}=\text{pF}$ ).  
ALL INDUCTANCE VALUES ARE IN  $\text{mH}$  ( $\text{m}=\text{mH}$ ).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPAC.  
ALL DIODES ARE HSS104TJ OR 1SS254T-77

Note : VDH9291023AW (s/G)



## 12. Location of P.C. Board Parts

1

2

3

4

5

■ Main Amplifier Board : Block No. 01

A

B

C

D

E

F

● Power Supply Board →

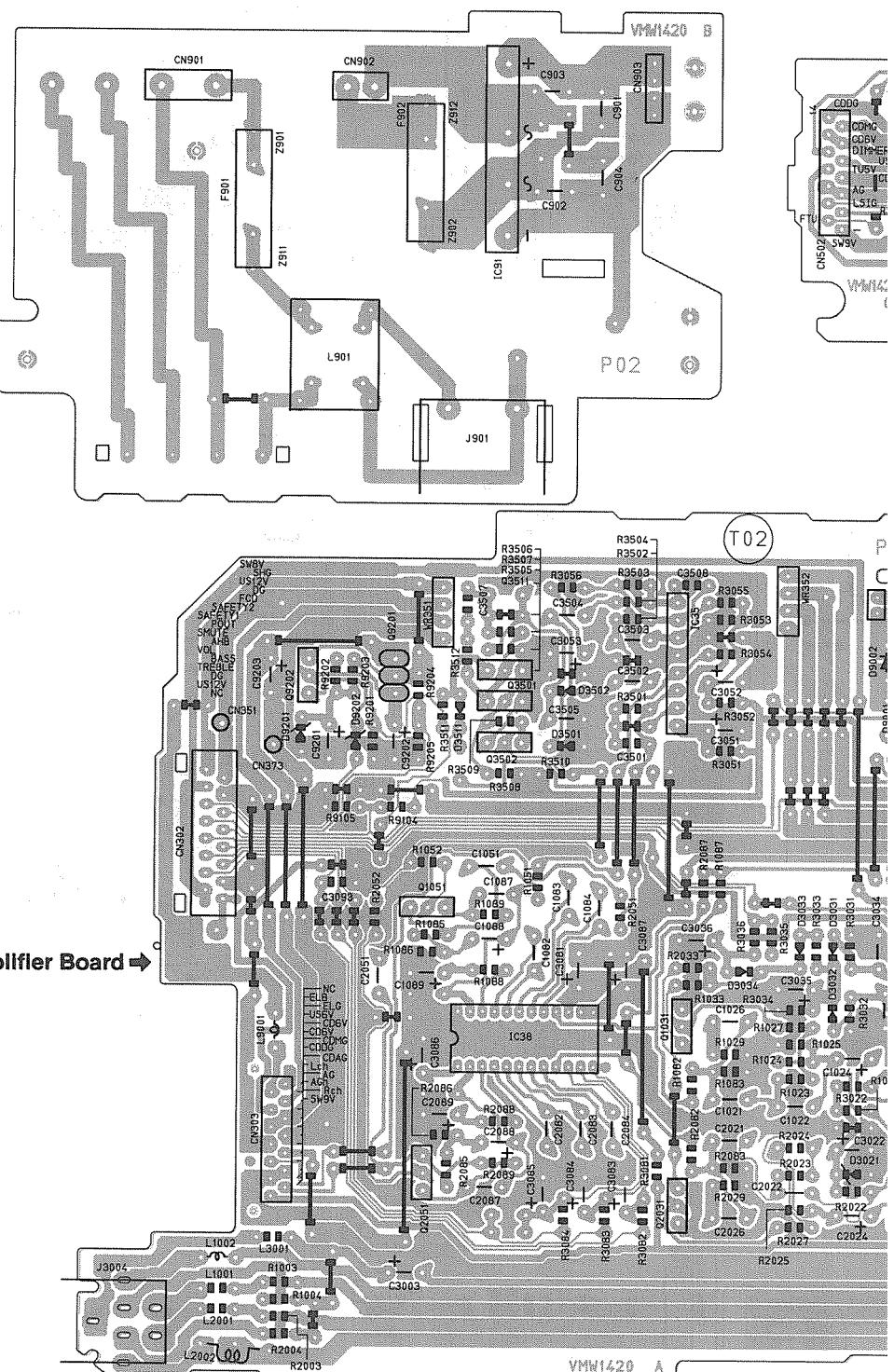


Fig.12-1

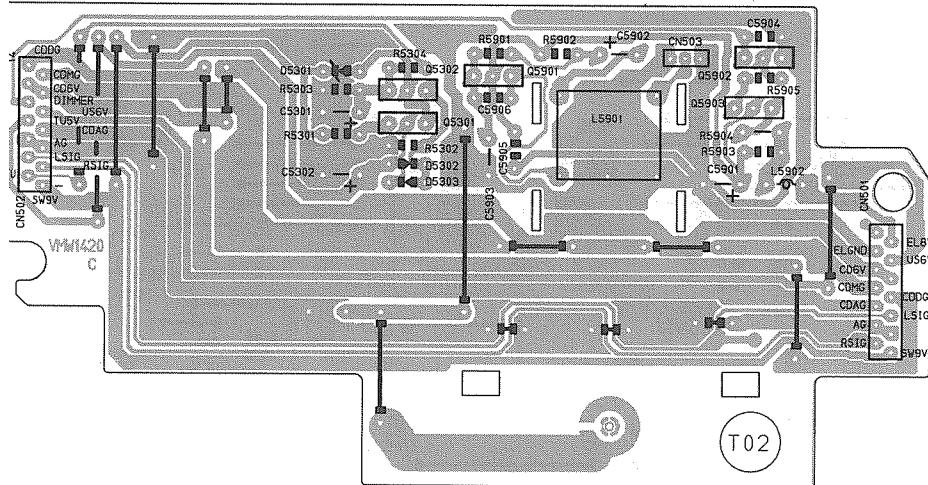
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7

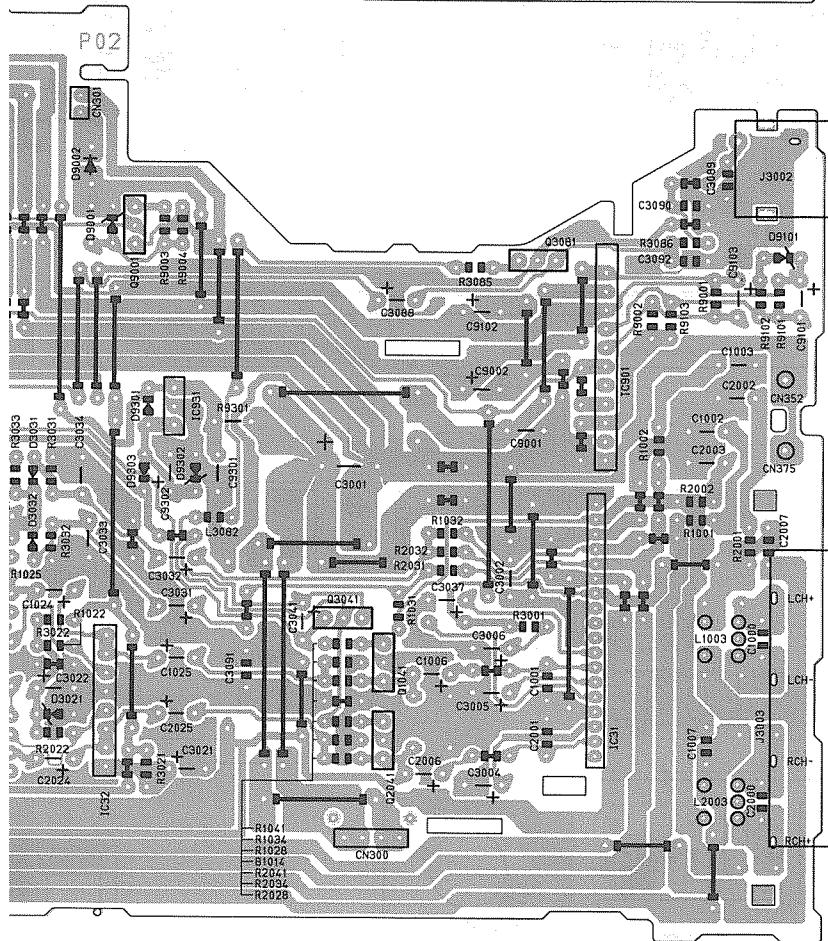
8

9

10



#### ◀ ● Tuner Switch & EL Drive Board



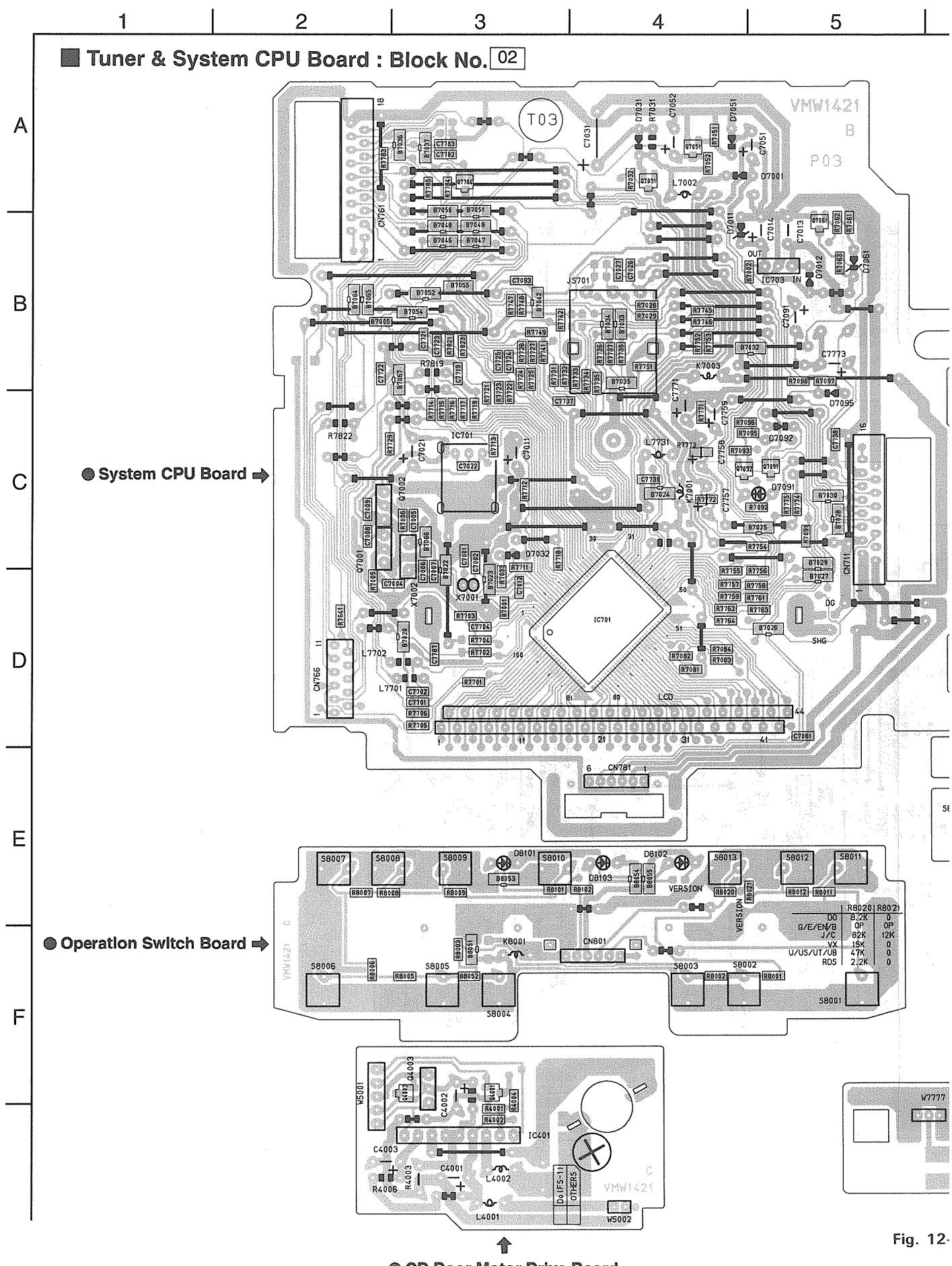


Fig. 12.

6 7 8 9 10

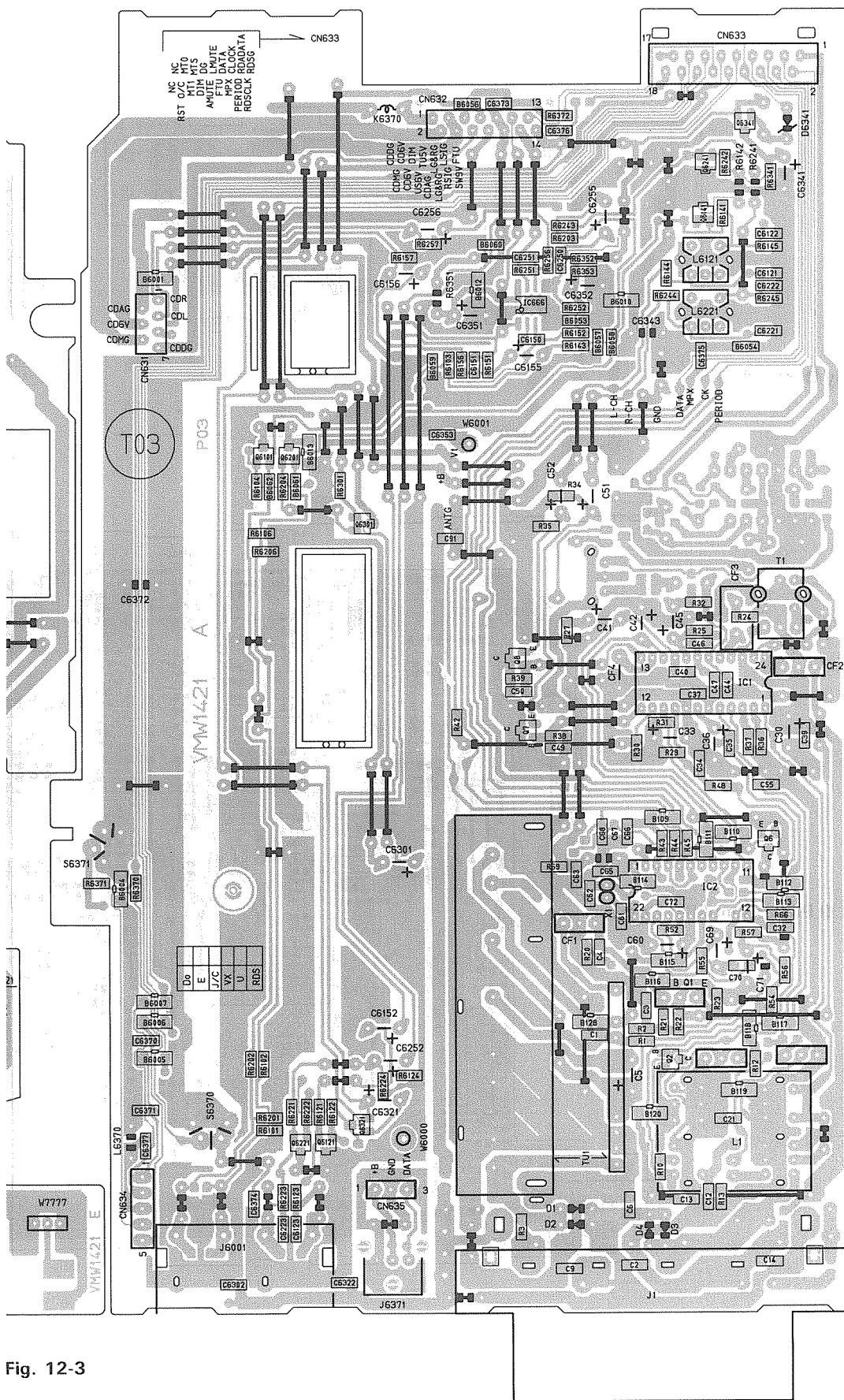


Fig. 12-3

■ CD Servo Control Board : Block No. 03

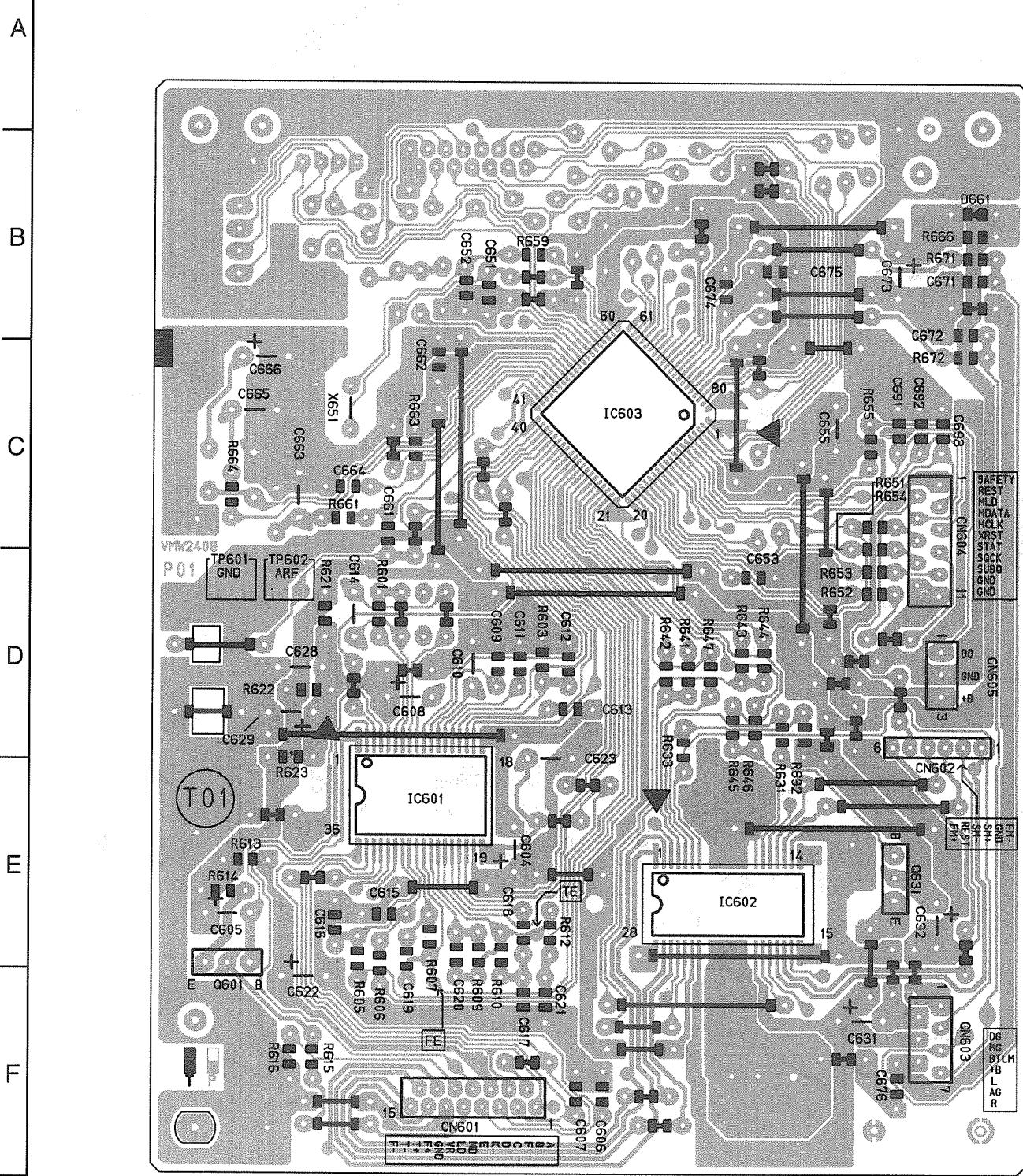


Fig.12-5

6 7 8 9 10

## 13. Analytic Drawing and Parts List

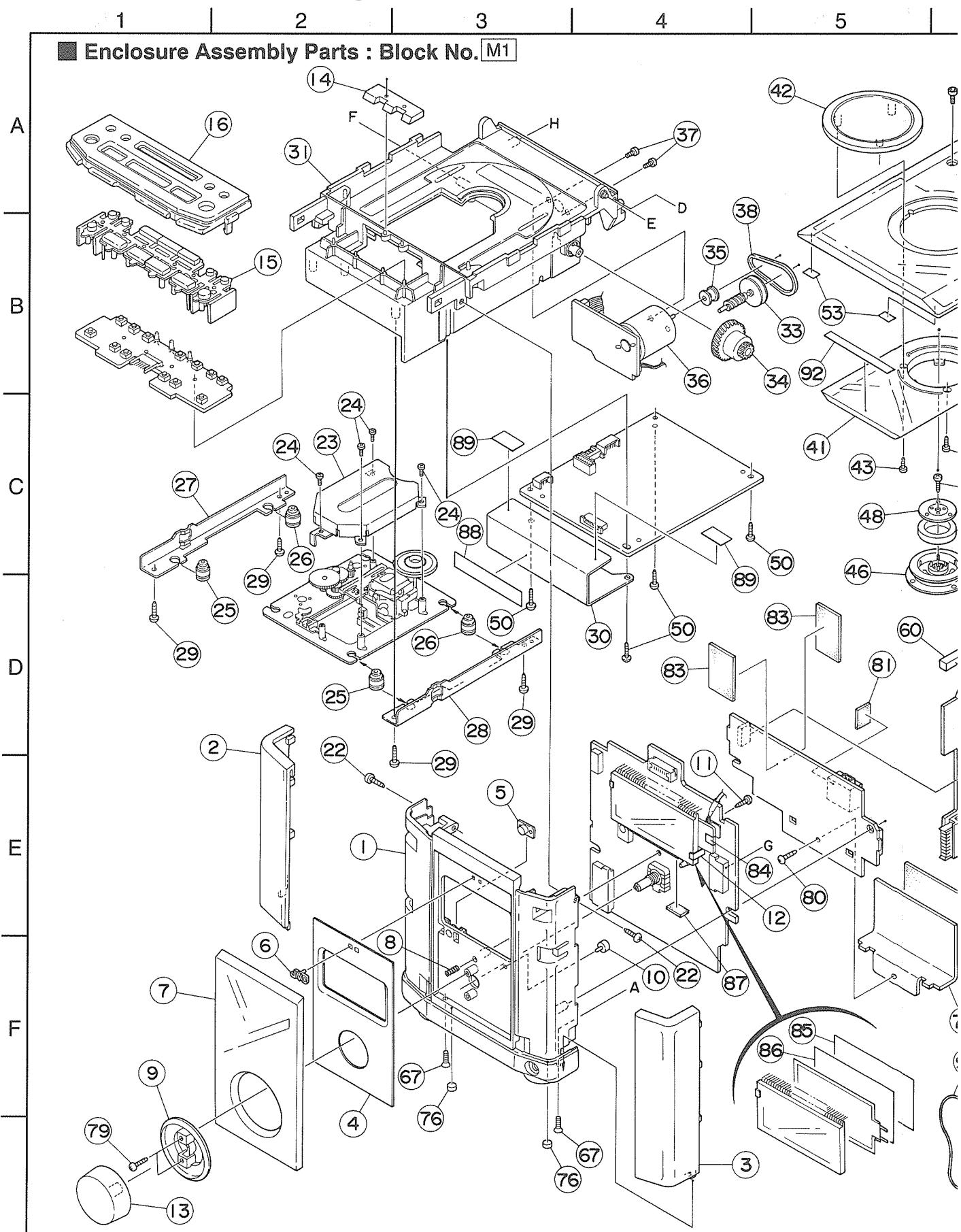


Fig.13-1

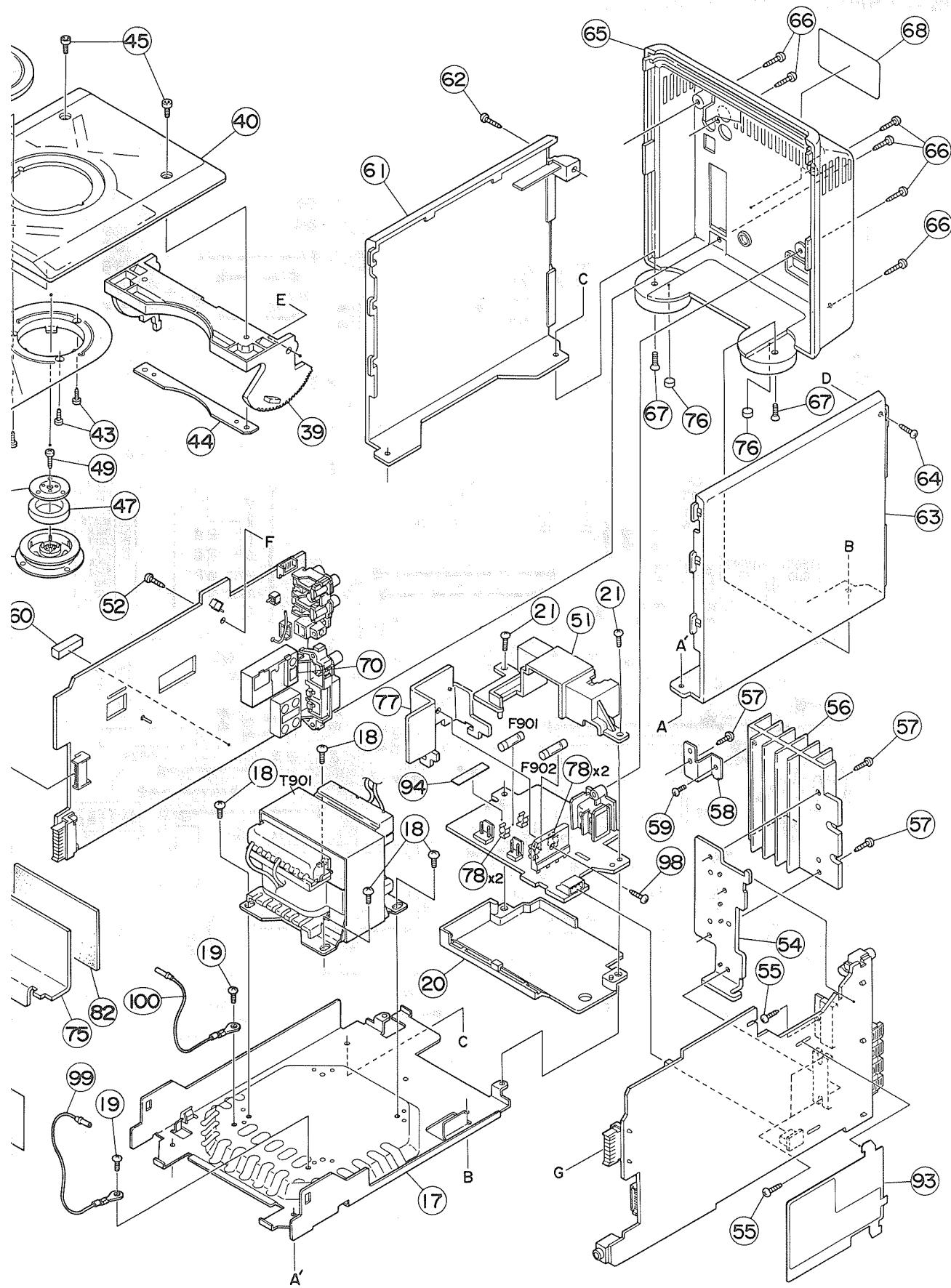
6

7

8

9

10





## ■ Enclosure Assembly Parts List

BLOCK NO. M1MM

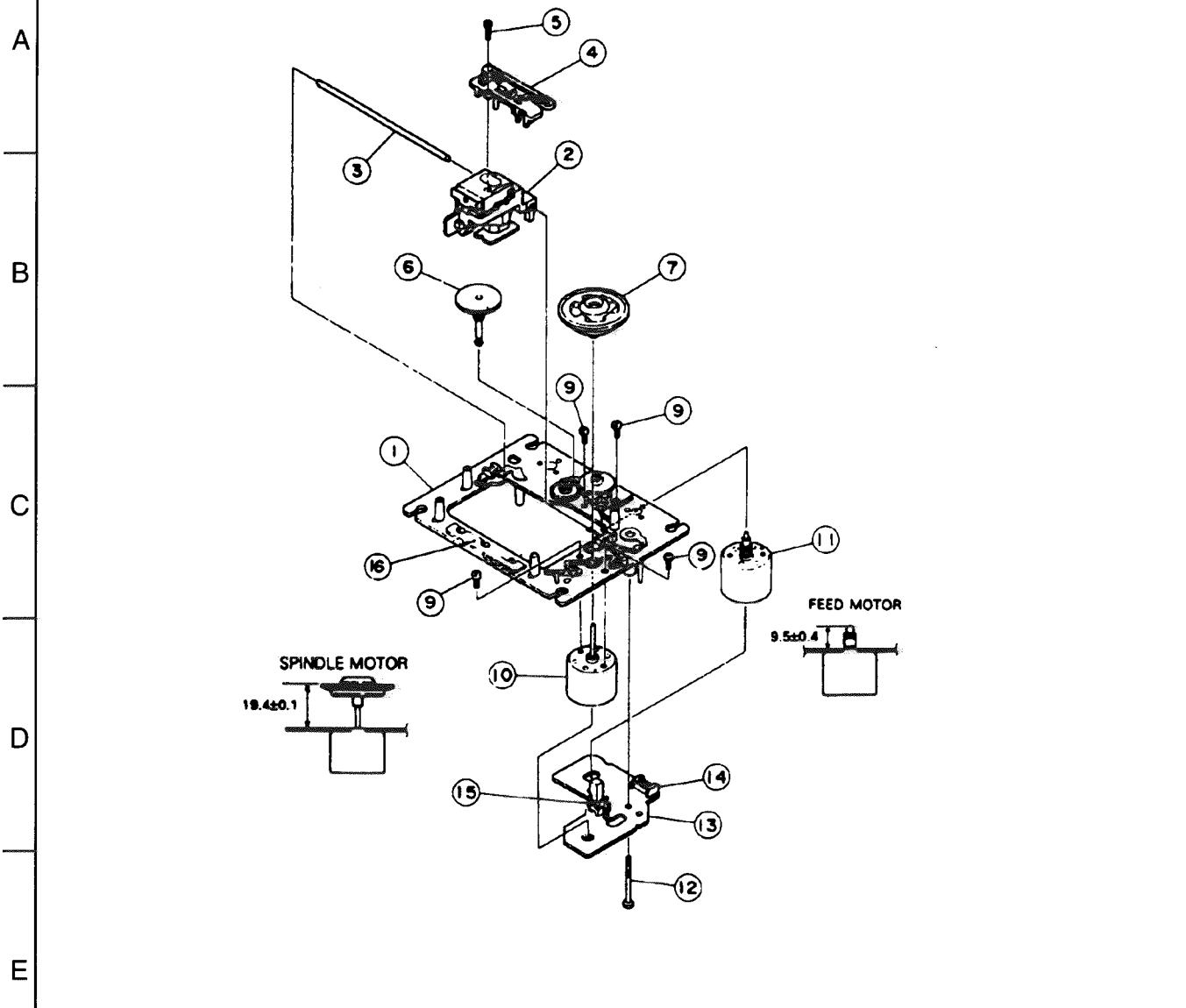
A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VJG1426-008	FRONT PANEL		1		
	2	VJE3006-001	FITTING (L)		1		
	3	VJE3007-001	FITTING (R)		1		
	4	VJD5492-004	PLATE		1		
	5	E408131-001	REMOTE LENS		1		
	6	E406971-221	JVC MARK		1		
	7	VJK3699-001	FRONT LENS		1		
	8	VKW3001-321	COMP. SPRING		1		
	9	VJD5491-001	VOL ESCUTCHEON		1		
	10	VJK4493-001SC	LENS(STANDBY)		1		
	11	SBSF3012Z	SCREW	PWB + FRONT	1		
	12	VYH3944-002	LCD HOLDER		1		
	13	VXL4448-001	VOLUME KNOB		1		
	14	VJK4490-001SC	LED LENS		1		
	15	VXP3807-002SC	BUTTON		1		
	16	VJD2470-002SC	TOP PANEL		1		
	17	VKL1444-001SC	BOTTOM CHASSIS		1		
	18	SBST4006Z	SCREW		4		
	19	SBST3004Z	SCREW		2		
	20	VYH3939-001SC	AC HOLDER		1		
	21	SBST3010Z	SCREW		2		
	22	SBSF3012Z	SCREW		2		
	23	VJD5410-005	PICK COVER		1		
	24	SDSF2006M	SCREW		4		
	25	E75609-001	INSULATOR		2		
	26	E75609-002	INSULATOR		2		
	27	VYH8089-001SC	CD MECHA HOLDER		1		
	28	VYH8089-002SC	CD MECHA HOLDER		1		
	29	SBSF3012Z	SCREW		4		
	30	VMA4692-002SC	SHIELD		1		
	31	VJD1210-002	CD CASE		1		
	33	VYH8090-001SC	GEAR 1		1		
	34	VYH8091-002SC	GEAR 2		1		
	35	VYH7699-001	PULLEY		1		
	36	MXN-13FB12F	DC MOTOR ASS'Y		1		
	37	SPSP3004Z	SCREW		2		
	38	VKB3000-170	BELT		1		
	39	VJE3014-001SC	CD DOOR		1		
	40	VJE3011-001	CD DOOR LENS		1		
	41	VJK3701-001SC	ILLUMI LENS		1		
	42	VJD5489-004	ORNAMENT		1		
	43	SDSF2006M	SCREW		3		
	44	VJD5490-001SC	STOPPER		1		
	45	VKZ4765-001	S.BOLT(DIN)		2		
	46	VYH3726-002SS	IC		1		
	47	VYH7313-003	MAGNET		1		
	48	VYH7677-201	YODE		1		
	49	SDSF2606Z	SCREW		1		
	50	SBSF3012Z	SCREW		4		
	51	VYH3962-001	SW HOLDER		1		
	52	SBSF3012Z	SCREW		1		
	53	VYSS1R1-108	SPACER		2		
	54	VYH8093-001SC	IC HOLDER		1		
	55	SBSF3010Z	SCREW		3		
	56	VMH3017-201	HEAT SINK		1		

BLOCK NO. M1MM1111

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	57 SBSF3012Z 58 VYH8107-001 59 SBST3008Z 60 VYSH104-047 61 VJD2471-001	SCREW BRACKET SCREW SPACER SIDE PANEL (L)	H.SINK+IC HOL,C	3 1 1 1 1		
	62 SBSF3012Z 63 VJD2472-001 64 SBSF3012Z 65 VJG1430-001 66 SBSF3012Z	SCREW SIDE PANEL (R) SCREW REAR COVER SCREW	REAR	1 1 1 1 6		
	67 SSST3010Z 68 VYN9302-C023 70 VMA4709-001 75 VMA4706-002SC 76 VJF4055-001	SCREW NAME PLATE SHIELD SHIELD FOOT	BOTTOM	4 1 1 1 4		
	77 VYH8094-002SC 78 EMG7331-003Z 79 SBSF3012Z 80 SBSF3010Z 81 VYSR102-062	HEAT SINK FUSE CLIP SCREW SCREW SPACER		1 4 2 1 1		
	82 VYSR102-063 83 VYSR102-066 84 PU59915-105 85 VYSS1R1-109 86 VYSS1R1-110	SPACER SPACER SPACER SPACER SPACER	FOR EL PET FOR:EL	1 2 1 1 1		
	87 VYSS1R5-080 88 VYSA1R4-050 89 VYSA1R6-021 92 VYST1R1-003 93 VMA4702-002	SPACER SPACER SPACER SPACER SHIELD		1 1 2 1 1		
	94 PU59915-105 98 SBSF3010Z 99 VWE240-12NTSA 100 VWE240-10NTSA 101 VGL1208-001S	SPACER SCREW LUG WIRE LUG WIRE L.C.D.	DI701	1 1 1 1 1		
A F F T 901 902 901	102 ESPR10001 QMF51E2-R40SBS QMF51E2-6R3J1 VTP66J2-12K	L.E.PANEL FUSE FUSE POWER TRANS	BL701(YELLOW) PRI SEC	1 1 1 1		

1 2 3 4 5

## ■ CD Mechanism Section : Block No. M2



## ■ CD Mechanism Parts List

BLOCK NO. M2MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	Q.TY	SUFFIX	CLR
	1	EPB-002A	MECHA BASE ASSY		1		
	2	OPTIMA-6S	OPTICAL PICK-UP		1		
	3	E406777-001	GUIDE SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
	6	EPB-003A	MECHA GEAR		1		
	7	E75807-301	TURN TABLE		1		
	9	SDSP2003N	SCREW	FOR MOTOR	4		
	10	E406783-001	DC MOTOR	SPINDOL MOTOR	1		
	11	E406784-001SA	DC MOTOR ASSY	FEED MOTOR	1		
	12	E75832-001	SPECIAL SCREW	M. REAF SWITCH	1		
	13	EMW10190-001	PRINTED BOARD	LEAF SWITCH	1		
	14	EMV5109-006B	6P PLUG ASS'Y		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		

## 14. Electrical Parts List

REF.	PARTS NO.	PARTS NAME	REMARKS	STUFF NO. [11111111]	BLOCK NO. [11111111]	REMARKS	PARTS NAME	PARTS NO.	REF.
C 201	QFLC1HJ-6832M	M.CAPACITOR	.068MF 5% 50V		C3021	QER21CM-226M	E.CAPACITOR	.47MF 20% 16V	
C 902	QFLC1HJ-6832M	M.CAPACITOR	.068MF 5% 50V		C3022	QFLC06-226Z	E.CAPACITOR	.1.0MF 20% 50V	
C 903	QFLC1HJ-6832M	M.CAPACITOR	.068MF 5% 50V		C3031	QER41HM-105VM	E.CAPACITOR	.1.0MF 20% 50V	
C 904	QFLC1HJ-6832M	M.CAPACITOR	.068MF 5% 50V		C3032	QER41HM-105VM	E.CAPACITOR	.056MF 5% 50V	
CN200	EMV7163-006	CONNECTOR	CD DOOR		C3033	QEV71HJ-5622M	FILM CAPACITOR	.056MF 5% 50V	
CN201	VMC0075-R02	CONNECTOR	MICOM		C3034	QEV71HJ-5622M	FILM CAPACITOR	.056MF 5% 50V	
CN202	VMC0340-S16	CONNECTOR	EL/TU/CONN		C3035	QET41HM-105	E.CAPACITOR	.1.0MF 20% 50V	
CN203	VMC0314-P14	CONNECTOR	SHARSHI EARTH		C3036	QET41CM-106	E.CAPACITOR	.1.0MF 20% 50V	
CN205	VMC0015-002	POST PIN	WR522 WIRE CLAM		C3081	QET41CM-106	E.CAPACITOR	.1.0MF 20% 16V	
CN211	VM20015-011	STYLE PIN	CN3571'S WIRE CL		C3041	QET41CM-106	E.CAPACITOR	.1.0MF 20% 16V	
CN213	VM2015-011	STYLE PIN			C3051	QET41AM-107	E.CAPACITOR	.1.0MF 20% 10V	
CN201	VMC0314-S14	CONNECTOR			C3052	QET41CM-226	E.CAPACITOR	.22MF 20% 16V	
CN202	VMC0314-S14	CONNECTOR			C3053	QET41CM-106	E.CAPACITOR	.1.0MF 20% 16V	
CN203	VMC0015-003	CONNECTOR			C3081	QET41AM-227	E.CAPACITOR	.22MF 20% 10V	
CN201	VM20049-BO2	CONNECTOR	PRI		C3083	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
CN202	VM2049-A02	CONNECTOR	SEC		C3084	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
CN203	EMV5163-004R	CONNECTOR			C3085	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
C1001	QCBBLHK-331Y	C.CAPACITOR	330PF 10% 50V		C3086	EEB1CM-106E	E.CAPACITOR	.10MF 20% 50V	
C1002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V		C3087	QET41HM-106	E.CAPACITOR	.10MF 20% 16V	
C1003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V		C3088	QET41CM-106	E.CAPACITOR	.10MF 20% 16V	
C1006	QTE1106-1062	E.CAPACITOR			C3501	QCS11HJ-330	C.CAPACITOR	.33PF 5% 50V	
C1021	QFN81HJ-683	M.CAPACITOR	MAKER SHITEI		C3502	QCS11HJ-201	C.CAPACITOR	.200PF 5% 50V	
C1022	QCC11EM-104V	M.CAPACITOR	MAKER SHITEI		C3503	QFLC1HJ-201	M.CAPACITOR	.047MF 5% 50V	
C1024	QTE1106-4762	E.CAP. SILMIC			C3504	QFLC1HJ-4722M	M.CAPACITOR	.047MF 5% 50V	
C1025	QTE1106-1062	E.CAPACITOR			C3505	QFLC1HJ-4737M	M.CAPACITOR	.047MF 5% 50V	
C1026	QTE1106-474	FILM CAPACITOR			C3507	QCBBLHK-271Y	C.CAPACITOR	.270PF 10% 50V	
C1051	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V		C3508	QCS11HJ-680	C.CAPACITOR	.68PF 5% 50V	
C1082	QFLC1HJ-563	M.CAPACITOR			C5301	QET41HM-475	E.CAPACITOR	TU SW	
C1083	QFLC1HJ-563	M.CAPACITOR			C5302	QET41NM-102	E.CAPACITOR	TU SW	
C1084	QFLC1HJ-4722M	M.CAPACITOR			C5901	QET41CM-227	E.CAPACITOR	.220MF 20% 16V	
C1087	EF20101-392S	P.P.CAPACITOR			C5902	QER41CM-6885Z	E.CAPACITOR	.6.8MF 20% 25V	
C1088	QTE1106-1062	E.CAPACITOR	ONHITU		C5903	QFL11HJ-333M	M.CAPACITOR	.033MF 5% 50V	
C1089	QTE1106-1062	E.C.CAPACITOR	VOL IC GAIN +4D		C5904	QCV11CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C2001	QCBBLHK-331Y	C.CAPACITOR	330PF 10% 50V		C5905	QCBBLHK-102Y	C.CAPACITOR	.10MF 5% 50V	
C2002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V		C9001	QEV11H-1047M	FILM CAPACITOR	-10KISEI/HATUSI	
C2003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V		C9002	QET41HM-107	E.CAPACITOR	.10MF 20% 25V	
C2004	QTE1106-1062	M.CAPACITOR			C9101	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
C2021	QFN81HJ-683	M.CAPACITOR	MAKER SHITEI		C9102	QET41EM-106	E.CAPACITOR	.10MF 20% 25V	
C2022	QFN81HJ-683	M.CAPACITOR	MAKER SHITEI		C9103	QET41HM-105	E.CAPACITOR	.1.0MF 20% 50V	
C2024	QTE1106-4762	E.CAPACITOR			C9201	QET41CM-106	E.CAPACITOR	.10MF 20% 16V	
C2025	QTE1106-1062	E.CAPACITOR			C9202	QET41CM-3372M	E.CAPACITOR	.330MF 20% 16V	
C2026	QFV41HJ-474	FILM CAPACITOR			C9203	QET41CM-476	E.CAPACITOR	.47MF 20% 16V	
C2027	EF20101-392S	C.CAPACITOR	100PF 5% 50V		C9301	QFL11HJ-102M	M.CAPACITOR	.10MF 5% 50V	
C2028	QTE1106-1062	E.CAPACITOR	.056MF 5% 50V		C9302	QET41EM-106	E.CAPACITOR	.10MF 20% 25V	
C2029	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V		D3021	M74-3JB	ZENER DIODE		
C2030	QET11EM-828	E.CAPACITOR			D3031	ISS133	SI DIODE		
C2084	QFLC1HJ-4722M	M.CAPACITOR			D3032	ISS133	SI DIODE		
C2085	QTE1106-1062	E.CAPACITOR	4700PF 5% 50V		D3033	ISS133	SI DIODE		
C2086	QFV41HJ-474	FILM CAPACITOR			D3034	ISS133	SI DIODE		
C2087	EF20101-392S	P.P.CAPACITOR	ONHITU		D3501	ISS133	MAKER SITEI		
C2088	QTE1106-1062	E.CAPACITOR	100MF 20% 25V		D3502	ISS133	MAKER SITEI		
C2089	QFLC1HJ-563	E.CAPACITOR			D3511	RB210	DIODE		
C2090	QTE1106-1062	E.CAPACITOR	33MF 20% 10V		D5301	M73-9JB	ZENER DIODE		
C2091	QET11EM-828	E.CAPACITOR	8200MF 20% 25V		D5302	ISS133	SI DIODE		
C3002	QFV41HJ-1042M								
C3003	QET41EM-107								
C3004	EETCLAM-3372E								
C3005	QETCLAM-3362N								
C3006	QETCHAM-2252M								

## Main Amplifier Board

REF.	PARTS NO.	PARTS NAME	REMARKS	STUFFIX	BLOCK NO. [011111]
D5303	ISS133	SI DIODE	TU SW		
D9001	MT210JAT-77	ZEENER DIODE			
D9002	1SR5-100A-12	SI DIODE	STANDBY MOTOR		
D9101	MA1075(M)	ZEENER DIODE			
D9201	MT26-8JB	ZEENER DIODE			
D9202	MT25-1JB	ZEENER DIODE			
D9301	ISS133	SI DIODE			
D9302	MT28-2JB	ZEENER DIODE			
D9303	ISS133	SI DIODE			
IC 3-1	LA4-05NA	IC	POWER AMP		
IC 3-2	NM4580LD	IC	AHB AMP		
IC 3-5	NJM4580L	IC			
IC 3-8	BH852S	IC	E VOL		
IC 9-1	D55A20-4101	SI DIODE			
IC901	BA19260	IC	REG		
IC931	KIN8506P-T	AC SOCKET	8TYPE		
J 901	QNC001-001	1PIN PINJ	BLACK		
J3002	VM3020-101	SPK TERMINAL	SPEAKER		
J3003	FMM4001-001	SPK TERMINAL			
J3004	QMS3160-E406	3-5 JACK			
L3001	VQP0018-470	INDUCTOR			
L5901	VQH1009-042	OSC COIL (BIAS)			
L5902	VQP0033-1002	INDUCTOR			
L9003	VQP0033-1002	INDUCTOR			
Q1031	KTC3199(GL)-T	INDUCTOR			
L3004	2SD2144S(VW)	TRANSISTOR			
Q1051	2SK301(P-Q)	TRANSISTOR			
Q2031	KTC3199(GL)-T	TRANSISTOR			
Q2041	2SD2144S(VW)	TRANSISTOR			
Q2051	2SK301(P-Q)	TRANSISTOR			
Q304	KRA101M-T	TRANSISTOR			
Q3081	2SD2144S(VW)	TRANSISTOR	BASS MUTE		
Q3501	KTC3199(GL)-T	TRANSISTOR			
Q3510	KTC3199(GL)-T	TRANSISTOR			
Q3511	DT144WSTP	TRANSISTOR			
Q5301	KTA1267(YG)-T	TRANSISTOR	TU SW		
Q5302	KTC3199(GL)-T	TRANSISTOR			
Q5901	2SD2144S(VW)	TRANSISTOR			
Q5902	KRC102M-T	TRANSISTOR	FOR DIMMER		
Q5903	2SA952(L,K)	TRANSISTOR			
Q9001	KTC3199(GL)-T	TRANSISTOR			
Q9201	2SD882(P-Q)	TRANSISTOR			
Q9202	KRA107M-T	TRANSISTOR			
R1001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W		
R1002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W		
R1003	QRD161J-151	CARBON RESISTOR	470 5% 1/6W		
R1004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W		
R1005	QRD161J-224	CARBON RESISTOR	220 5% 1/6W		
R1006	QRD161J-222	CARBON RESISTOR	220 5% 1/6W		
R1007	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W		
R1008	QRD161J-155	CARBON RESISTOR	15K 5% 1/6W		
R1009	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R1010	QRD161J-202	CARBON RESISTOR	4.7K 5% 1/6W		
R1011	QRD161J-153	CARBON RESISTOR	4.7K 5% 1/6W		
R1012	QRD161J-472	CARBON RESISTOR	330 5% 1/6W		
R1013	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R1014	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W		

REF.	PARTS NO.	PARTS NAME	REMARKS	STUFFIX	BLOCK NO. [011111]
R1032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
R1033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R1041	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
R1051	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R1052	QRD161J-475	CARBON RESISTOR	4.7K 5% 1/6W		
R1082	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W		
R1083	QRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W		
R1085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
R1086	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W		
R1087	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R1088	QRD161J-333	CARBON RESISTOR	330 5% 1/6W		
R1089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W		
R2001	QRD161J-282	CARBON RESISTOR	2.2 5% 1/6W		
R2002	QRD161J-232	CARBON RESISTOR	2.2 5% 1/6W		
R2003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W		
R2004	QRD161J-771	CARBON RESISTOR	470 5% 1/6W		
R2005	QRD161J-123	CARBON RESISTOR	220K 5% 1/6W		
R2006	QRD161J-224	CARBON RESISTOR	2.0K 5% 1/6W		
R2007	QRD161J-123	CARBON RESISTOR	10K 5% 1/6W		
R2008	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R2009	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R2010	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W		
R2011	QRD161J-232	CARBON RESISTOR	22K 5% 1/6W		
R2012	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W		
R2013	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R2014	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R2015	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R2016	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W		
R2017	QRD161J-475	CARBON RESISTOR	4.7K 5% 1/6W		
R2018	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W		
R2019	QRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W		
R2020	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W		
R2021	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R2022	QRD161J-475	CARBON RESISTOR	4.7K 5% 1/6W		
R2023	QRD161J-232	CARBON RESISTOR	22K 5% 1/6W		
R2024	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R2025	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W		
R2026	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
R2027	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R2028	QRD161J-224	CARBON RESISTOR	2.2K 5% 1/6W		
R2029	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
R2030	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R2031	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W		
R2032	QRD161J-232	CARBON RESISTOR	22K 5% 1/6W		
R2033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R2034	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W		
R2035	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
R2036	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R2037	QRD161J-224	CARBON RESISTOR	2.2K 5% 1/6W		
R2038	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R2039	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W		
R3001	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3021	QRD161J-101	CARBON RESISTOR	10K 5% 1/6W		
R3022	QRD161J-152	CARBON RESISTOR	100 5% 1/6W		
R3023	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3024	QRD161J-333	CARBON RESISTOR	330 5% 1/6W		
R3025	QRD161J-333	CARBON RESISTOR	330 5% 1/6W		
R3026	QRD161J-772	CARBON RESISTOR	4.7K 5% 1/6W		
R3027	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R3028	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W		
R3029	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W		
R3030	QRD161J-513	CARBON RESISTOR	51K 5% 1/6W		
R3031	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R3032	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3033	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W		
R3034	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3035	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W		
R3036	QRD161J-513	CARBON RESISTOR	51K 5% 1/6W		
R3037	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R3038	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3039	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R3040	QRD161J-773	CARBON RESISTOR	4.7K 5% 1/6W		
R3041	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W		
R3042	QRD161J-331	CARBON RESISTOR	330 5% 1/6W		
R3043	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R3044	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W		

## Tuner &amp; System CPU Board

BLOCK NO. [01][11111]

A	REF.	PARTS NO.	PARTS NAME	SUFFIX	REMARKS	BLOCK NO. [01][11111]
R3083	GRD161J-154	CARBON RESISTOR 150K 5% 1/6W				
R3084	GRD161J-124	CARBON RESISTOR 120K 5% 1/6W				
R3085	GRD161J-272	CARBON RESISTOR 2.7K 5% 1/6W				
R3086	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R3087	GRD161J-473	CARBON RESISTOR 6.7K 5% 1/6W				
R3088	GRD161J-822	CARBON RESISTOR 8.2K 5% 1/6W				
R3089	GRD161J-822	CARBON RESISTOR 8.2K 5% 1/6W				
R3504	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R3505	GRD161J-475	CARBON RESISTOR 4.7M 5% 1/6W				
R3506	GRD161J-224	CARBON RESISTOR 220K 5% 1/6W				
R3507	GRD161J-334	CARBON RESISTOR 330K 5% 1/6W				
R3508	GRD161J-224	CARBON RESISTOR 220K 5% 1/6W				
R3510	GRD161J-474	CARBON RESISTOR 4.70K 5% 1/6W				
R3511	GRD161J-104	CARBON RESISTOR 100K 5% 1/6W				
R3512	GRD161J-152	CARBON RESISTOR 1.5K 5% 1/6W				
R5301	GRD161J-390	CARBON RESISTOR 1U SW				
R5302	GRD161J-102	CARBON RESISTOR TU SW				
R5303	GRD161J-563	CARBON RESISTOR TU SW				
R5304	GRD161J-472	CARBON RESISTOR TU SW				
R5901	GRD161J-270	CARBON RESISTOR 27.5% 1/6W				
R5902	GRD161J-682	CARBON RESISTOR 6.8K 5% 1/6W				
R5903	GRD161J-221	CARBON RESISTOR 220 5% 1/6W				
R5904	GRZ0077-330	F. RESISTOR 33 1/0W				
R5905	GRD161J-562	CARBON RESISTOR 5.6K 5% 1/6W				
R9001	GRD161J-183	CARBON RESISTOR 18K 5% 1/6W				
R9002	GRD161J-332	CARBON RESISTOR 3.3K 5% 1/6W				
R9003	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R9004	GRD161J-391	CARBON RESISTOR 390 5% 1/6W				
R9103	GRD161J-332	CARBON RESISTOR 3.3K 5% 1/6W				
R9104	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R9105	GRD161J-103	CARBON RESISTOR 1.0K 5% 1/6W				
R9202	GRD161J-122	CARBON RESISTOR 1.2K 5% 1/6W				
R9201	GRD161J-101	CARBON RESISTOR 100 5% 1/6W				
R9203	GRD161J-220	CARBON RESISTOR 22 5% 1/6W				
R9204	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R9205	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
A	R9301	GRZ0077-4R7X	FUSE RESISTOR 4.7 1/0W			

A	REF.	PARTS NO.	PARTS NAME	SUFFIX	REMARKS	BLOCK NO. [02][11111]
	RL701	ESPR10001	EL PANEL YELLOW	LCD BACK LIGHT		
C	1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V		
C	2	NCB21HK-102AY	C CAPACITOR	1.000PF 10% 50V		
C	3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		
C	4	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C	5	QEK61CM-106	E CAPACITOR	.10MF 20% 16V		
C	6	NCB21HK-102AY	C CAPACITOR	1.000PF 10% 50V		
C	9	NCB21HK-102AY	C CAPACITOR	1.000PF 10% 50V		
C	12	NC121UJ-100AY	C CAPACITOR	1.0PF 5%		
C	13	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		
C	14	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C	21	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		
C	30	QEK41CM-176	E CAPACITOR	.47MF 20% 16V		
C	32	NCB21HK-102AY	C CAPACITOR	1.000PF 10% 50V		
C	33	QEK61AM-107Z	E CAPACITOR	.100MF 20% 10V		
C	34	NCB21HK-150AY	C CAPACITOR	.15PF 5%		
C	35	NCB21HK-102AY	C CAPACITOR	1.000PF 10% 50V		
C	36	QEK41CM-106	E CAPACITOR	.10MF 20% 16V		
C	37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V		
C	39	NCB21HK-103AY	C CAPACITOR	.047MF 10% 50V		
C	40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C	41	QEK41HM-104	E CAPACITOR	.47MF 20% 50V		
C	44	NC521UH-21AY	C CAPACITOR	.220PF 5% 50V		
C	45	QEK61HM-474	E CAPACITOR	.12PF 5% 50V		
C	46	NCB21HK-3352N	E CAPACITOR	.3.3MF 20% 50V		
C	47	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V		
C	49	NCB21HK-153AY	C CAPACITOR	.015MF 10% 50V		
C	50	NCB21HK-153AY	C CAPACITOR	.015MF 10% 50V		
C	51	QEK61AM-105	E CAPACITOR	.1.0MF 20% 50V		
C	52	QEK41HM-105	E CAPACITOR	.1.0MF 20% 50V		
C	60	QEK61AM-107Z	E CAPACITOR	.100MF 20% 10V		
C	61	NC521UH-120AY	C CAPACITOR	.12PF 5% 50V		
C	62	NC521UH-120AY	C CAPACITOR	.047MF 10% 25V		
C	63	NCB21HK-473AY	C CAPACITOR	.1.000PF 10% 50V		
C	65	NCB21HK-102AY	C CAPACITOR	.1.000PF 10% 50V		
C	66	NC521UH-151AY	C CAPACITOR	.010MF 5% 50V		
C	68	NC521UH-01AY	C CAPACITOR	.2.2MF 20% 50V		
C	70	NCB21HK-592AY	C CAPACITOR	.3900PF 10% 50V		
C	71	QEK61HM-3357N	E CAPACITOR	.3.3MF 20% 50V		
C	72	NCB21HK-102AY	C CAPACITOR	1.000PF 10% 50V		
C	91	NCB21HK-103AY	C CAPACITOR	0.10MF 10% 50V		
C	92	VCF2L3B-108Z	C FILTER	FM IF		
C	93	VCF2L3B-108Z	C FILTER	FILTER		
C	94	CMU2-456405	CERAMIC FILTER			
C	95	VMC0163-R07	CERA LOCK			
C	96	VMC0314-P14	CONNECTOR			
C	97	VMC0340-S18	CONNECTOR			
C	98	VMC041-005	CONNECTOR			
C	99	VMC040-003	CONNECTOR			
C	100	VMC0340-P16	CONNECTOR			
C	101	VMC0340-P18	CONNECTOR			
C	102	VMC0163-R11	CONNECTOR			

BLOCK NO. 02111111				BLOCK NO. 02111111			
REF.	PARTS NO.	PARTS NAME	SUFFIX	REF.	PARTS NO.	PARTS NAME	SUFFIX
CN781	EMV7159-006	CONNECTOR BTB	TO SW	C7702	NCS11HJ-151AY	C CAPACITOR	150PF 5% 50V
CN801	EMV5159-006R	B TO B CONNECTOR	TO MICOM	C7704	NCS11HJ-331AY	C CAPACITOR	330PF 5% 50V
C4001	QET41CM-106	E CAPACITOR	10MF 20% 16V	C7719	NCS11HJ-271AY	C CAPACITOR	MICOM NOISE
C4002	QETCOJM-2277N	E CAPACITOR	220MF 20% 6.3V	C7721	NCS11HJ-271AY	C CAPACITOR	MICOM NOISE
C4003	QET41AM-107	E CAPACITOR	100MF 20% 10V	C7722	NCS11HJ-271AY	C CAPACITOR	MICOM NOISE
C6111	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	C7723	NCS21HK-271AY	C CAPACITOR	MICOM NOISE
C6112	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	C7724	NCB21HK-102AY	C CAPACITOR	MICOM NOISE
C6115	NCS21HJ-100AY	C CAPACITOR	10PF 5% 50V	C7725	NCS21HK-102AY	C CAPACITOR	MICOM NOISE
C6116	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	C7731	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V
C6115	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	C7737	NCB21HK-102AY	C CAPACITOR	MICOM NOISE
C6116	QTE103-106Z	E.CAPACITOR		C7757	QER11HM-225	E.CAPACITOR	
C6221	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	C7758	QER11HM-335YM	E.CAPACITOR	2.2MF 20% 50V
C6221	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	C7759	QER11HM-225	E.CAPACITOR	3.3MF 20% 50V
C6251	NCS21HJ-100AY	C.CAPACITOR	10PF 5% 50V	C7771	QER11HM-105VM	E.CAPACITOR	2.2MF 20% 50V
C6252	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	C7773	QER11HM-105VM	E.CAPACITOR	1.0MF 20% 50V
C6255	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	C778	NCS21HJ-151AY	C CAPACITOR	1.0MF 20% 50V
C6256	QTE103-106Z	E.CAPACITOR		C7783	NCS21HK-103AY	C CAPACITOR	MICOM NOISE
C6301	QER61HM-684ZM	E.CAPACITOR	-68MF 20% 50V	D	1	1 SS133	SI DIODE
C6302	NCB21HK-103AY	C CAPACITOR	-60MF 10% 50V	D	2	1 SS133	SI DIODE
C6321	QER41CM-106	E.CAPACITOR	10MF 20% 16V	D	3	1 SS133	SI DIODE
C6322	NCB21HK-103AY	C CAPACITOR	-0.01MF 10% 50V	D	4	1 SS133	SI DIODE
C6341	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	D	1701	VGL1208-001S	L.C.D.
C6343	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	D	341	MT16.2JB	ZENER DIODE
C6345	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	D	2001	1 SS133	SI DIODE
C6352	QTE106-106Z	E.CAPACITOR		D	7011	MT28.2JB	ZENER DIODE
C6353	NCB21HK-823AY	C CAPACITOR	-0.02MF 10% 25V	D	7012	1 SS133	SI DIODE
C6350	NCB21HK-223AY	C CAPACITOR	-0.22MF 10% 50V	D	7031	1 SS133	SI DIODE
C6351	NCB21HK-223AY	C CAPACITOR	0.22MF 10% 50V	D	7032	1 SS133	SI DIODE
C6352	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	D	7051	1 SS133	SI DIODE
C6353	NCB21HK-182AY	C CAPACITOR	1800PF 10% 50V	D	7051	1 SS133	SI DIODE
C6354	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	D	7061	MT75.1JC	ZENER DIODE
C6355	NCB21HK-103AY	C CAPACITOR	0.01MF 10% 50V	D	7091	SLR342VUC-T09	LED RED 9.9MM
C6356	NCB21HK-102AY	C CAPACITOR	100PF 10% 50V	D	0992	1 SS133	SI DIODE
C7001	NCS21HJ-180AY	C CAPACITOR	18PF 5% 50V	D	7095	1 SS133	SI DIODE
C7002	NCS21HJ-180AY	C CAPACITOR	18PF 5% 50V	D	8101	SLR342MCT-109	LED GRN. 9.9MM
C7004	NCS21HJ-360AY	C CAPACITOR	36PF 5% 50V	D	8102	SLR342MCT-109	LED GRN. 9.9MM
C7005	NCS21HJ-390AY	C CAPACITOR	39PF 5% 50V	D	8103	SL-481C09-T6	LED
C7006	NCS21HJ-200AY	C CAPACITOR	20PF 5% 50V	I	2057N	IC	IC
C7007	NCS21HJ-220AY	C CAPACITOR	22PF 5% 50V	I	2136	IC	IC
C7008	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	I	401	TAB409S	IC
C7009	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	I	666	BA1521BF	IC
C7011	QER41AM-107	E.CAPACITOR	100MF 20% 10V	I	701	UPD78063G-111	IC
C7012	NCB21HK-103AY	C CAPACITOR	-0.01MF 10% 50V	I	702	SBX1971-52	RM. RECEIVER
C7013	QFLC1H-1042M	M.CAPACITOR	-1.0MF 5% 50V	I	703	KAT1S06P-T	IC
C7014	QER41CM-106	E.CAPACITOR	10MF 20% 16V	J	1	FMMB10YY-401K	ANT TERMINAL
C7021	QER41CM-475M	E.CAPACITOR	47MF 20% 16V	J	5701	VCV7003-001	ROTARY ENCODER
C7022	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	J	6001	VMJ3025-001	4PIN JACK ASSY
C7026	NCB21HK-103AY	C CAPACITOR	-0.01MF 10% 50V	J	6371	GP1F32T	OPTICAL JACK
C7027	NCB21HK-103AY	C CAPACITOR	-0.1MF 10% 50V	K	6370	VZ0048-007	INDUCTOR
C7031	EECSOHD473H	E.D.L.CAPACITOR	-0.10MF 10% 50V	K	7001	VZ0107-002	INDUCTOR
C7051	QER41CM-106	E.CAPACITOR	10MF 20% 16V	K	7003	VZ0107-002	INDUCTOR
C7052	QER41CM-225	E.CAPACITOR	2.2MF 20% 50V	K	8001	VZ0107-002	COIL BLOCK
C7081	NCB21HK-102AY	C CAPACITOR	MICOM NOISE	L	4	VZ0098-202	INDUCTOR
C7091	QER41AM-107	E.CAPACITOR	100MF 20% 10V	L	4001	VZ0018-221	INDUCTOR
C7701	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	L	4001	VZ0028-221	INDUCTOR

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [02]
L4002	VQ0107-002	INDUCTOR			
L6121	EQF0101-010	INDUCTOR			
L6221	EQF0101-010	INDUCTOR			
L6370	VQF0018-100	INDUCTOR			
L7002	VQF0033-100Z	INDUCTOR			
L7352	VQF0018-4R7	INDUCTOR			
L7701	VQF0018-4R7	INDUCTOR			
L7702	VQF0018-4R7	INDUCTOR			
L7731	VQF0033-100Z	INDUCTOR			
Q1	2SC22668-(0)	TRANSISTOR			
Q6	DT114YKA-X	TRANSISTOR			
Q7	2SA1037K-(R)	TRANSISTOR			
Q8	2SA1037K-(R)	TRANSISTOR			
Q4001	2SC2412KK1	TRANSISTOR			
Q4002	2SC2412KK1	TRANSISTOR			
Q4003	2SC2412KK1	TRANSISTOR			
Q6101	2SC2412KK1	TRANSISTOR			
Q6121	2SC2412KK1	TRANSISTOR			
Q6201	2SC2412KK1	TRANSISTOR			
Q6221	2SC2412KK1	TRANSISTOR			
Q6241	2SC2412KK1	TRANSISTOR			
Q6301	2SC2412KK1	TRANSISTOR			
Q6321	DTA114YKA-X	TRANSISTOR			
Q6341	DTA114YKA-X	TRANSISTOR			
Q7002	2SC22668-(0)	TRANSISTOR			
Q7031	2SA1037AK(RS)-X	TRANSISTOR			
Q7051	2SC2412KK1	TRANSISTOR			
Q7061	2SC2412KK1	TRANSISTOR			
Q7091	2SA1037AK(RS)-X	TRANSISTOR			
Q7784	DT114YKA-X	TRANSISTOR			
R1	NRSA02J-102NY	HIP TRANSISTOR			
R2	NRSA02J-8.0NY	HIP TRANSISTOR			
R3	NRSA02J-102NY	HIP TRANSISTOR			
R10	NRSA02J-102NY	HIP TRANSISTOR			
R12	NRSA02J-102NY	HIP TRANSISTOR			
R13	NRSA02J-104NY	HIP TRANSISTOR			
R20	NRSA02J-31NY	HIP TRANSISTOR			
R21	NRSA02J-224NY	HIP TRANSISTOR			
R22	NRSA02J-31NY	HIP TRANSISTOR			
R23	NRSA02J-220NY	HIP TRANSISTOR			
R24	NRSA02J-271NY	HIP TRANSISTOR			
R25	NRSA02J-473NY	HIP TRANSISTOR			
R27	NRSA02J-223NY	HIP RESISTOR			
R29	NRSA02J-73NY	HIP RESISTOR			
R30	NRSA02J-103NY	HIP RESISTOR			
R31	NRSA02J-103NY	HIP RESISTOR			
R32	NRSA02J-73NY	HIP RESISTOR			
R34	NRSA02J-33NY	HIP RESISTOR			
R35	NRSA02J-333NY	HIP RESISTOR			
R36	NRSA02J-103NY	HIP RESISTOR			
R37	NRSA02J-722NY	HIP RESISTOR			
R38	NRSA02J-392NY	HIP RESISTOR			

REF.	PARTS NO.	PARTS NAME	REMARKS	PARTS NO.	PARTS NAME	REMARKS	BLOCK NO. [02]
R39	NRSA02J-192NY	MG RESISTOR		3.9K	5%	1/10W	
R42	NRSA02J-102NY	MG RESISTOR		1.0K	5%	1/10W	
R43	NRSA02J-102NY	MG RESISTOR		1.0K	5%	1/10W	
R44	NRSA02J-102NY	MG RESISTOR		1.0K	5%	1/10W	
R45	NRSA02J-102NY	MG RESISTOR		1.0K	5%	1/10W	
R48	NRSA02J-102NY	MG RESISTOR		1.0K	5%	1/10W	
R52	NRSA02J-772NY	MG RESISTOR		4.7K	5%	1/10W	
R54	NRSA02J-472NY	MG RESISTOR		4.7K	5%	1/10W	
R55	NRSA02J-182NY	MG RESISTOR		1.8K	5%	1/10W	
R56	NRSA02J-153NY	MG RESISTOR		3.3K	5%	1/10W	
R57	NRSA02J-102NY	MG RESISTOR		1.0K	5%	1/10W	
R66	NRSA02J-103NY	MG RESISTOR		2.2K	5%	1/10W	
R69	NRSA02J-103NY	MG RESISTOR		10K	5%	1/10W	
R4001	NRSA02J-153NY	MG RESISTOR		15K	5%	1/10W	
R4002	NRSA02J-682NY	MG RESISTOR		6.8K	5%	1/10W	
R4003	GRD14CJ-3R9S	UNF-C-RESISTOR		3.9	5%	1/4W	
R4004	NRSA02J-103NY	MG RESISTOR		10K	5%	1/10W	
R4006	GRD161J-391	CARBON RESISTOR		390	5%	1/6W	
R6101	NRSA02J-151	CARBON RESISTOR		150	5%	1/6W	
R6102	NRSA02J-623NY	MG RESISTOR		220K	5%	1/10W	
R6103	NRSA02J-153NY	MG RESISTOR		62K	5%	1/10W	
R6104	NRSA02J-422NY	MG RESISTOR		15K	5%	1/10W	
R6106	NRSA02J-153NY	MG RESISTOR		2.2K	5%	1/10W	
R6121	NRSA02J-392NY	MG RESISTOR		15K	5%	1/10W	
R6122	NRSA02J-222NY	MG RESISTOR		3.9K	5%	1/10W	
R6123	NRSA02J-102NY	MG RESISTOR		2.2K	5%	1/10W	
R6124	NRSA02J-223NY	MG RESISTOR		22K	5%	1/10W	
R6141	NRSA02J-562NY	MG RESISTOR		5.6K	5%	1/10W	
R6142	GRD161J-392	CARBON RESISTOR		3.9K	5%	1/6W	
R6143	NRSA02J-123NY	MG RESISTOR		12K	5%	1/10W	
R6144	NRSA02J-332NY	MG RESISTOR		3.3K	5%	1/10W	
R6145	NRSA02J-8222NY	MG RESISTOR		8.2K	5%	1/10W	
R6151	NRSA02J-154NY	MG RESISTOR		15K	5%	1/10W	
R6152	NRSA02J-333NY	MG RESISTOR		33K	5%	1/10W	
R6156	NRSA02J-124NY	MG RESISTOR		120K	5%	1/10W	
R6201	NRSA02J-103NY	MG RESISTOR		10K	5%	1/10W	
R6202	NRSA02J-623NY	MG RESISTOR		62K	5%	1/10W	
R6203	NRSA02J-153NY	MG RESISTOR		15K	5%	1/10W	
R6204	NRSA02J-223NY	MG RESISTOR		2.2K	5%	1/10W	
R6206	NRSA02J-153NY	MG RESISTOR		15K	5%	1/10W	
R6221	NRSA02J-332NY	MG RESISTOR		3.9K	5%	1/10W	
R6222	NRSA02J-222NY	MG RESISTOR		2.2K	5%	1/10W	
R6223	NRSA02J-102NY	MG RESISTOR		1.0K	5%	1/10W	
R6224	NRSA02J-822NY	MG RESISTOR		8.2K	5%	1/10W	
R6241	GRD167J-562	CARBON RESISTOR		5.6K	5%	1/6W	
R6242	NRSA02J-392NY	MG RESISTOR		3.9K	5%	1/10W	
R6243	NRSA02J-123NY	MG RESISTOR		12K	5%	1/10W	
R6244	NRSA02J-332NY	MG RESISTOR		3.3K	5%	1/10W	
R6245	NRSA02J-822NY	MG RESISTOR		8.2K	5%	1/10W	
R6251	NRSA02J-154NY	MG RESISTOR		150K	5%	1/10W	
R6252	NRSA02J-333NY	MG RESISTOR		33K	5%	1/10W	
R6256	NRSA02J-124NY	MG RESISTOR		120K	5%	1/10W	
R6257	NRSA02J-103NY	MG RESISTOR		10K	5%	1/10W	

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A	REF.	PART'S NO.	PART'S NAME	REMARKS	SUFFIX	A	REF.	PART'S NO.	PART'S NAME	REMARKS	SUFFIX
R6301	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7732	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R6341	NRSA02J-223NY	MG RESISTOR	22K 5%	1/10W		R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5%	1/10W	
R6351	QRD161J-101	CARBON RESISTOR	100 5%	1/6W		R7734	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R6352	NRSA02J-473NY	MG RESISTOR	47K 5%	1/10W		R7735	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R6353	NRSA02J-473NY	MG RESISTOR	47K 5%	1/10W		R7736	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R6370	NRSA02J-913NY	RESISTOR	91K 5%	1/10W		R7737	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R6371	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R7738	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W	
R6372	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R7741	NRSA02J-154NY	MG RESISTOR	150K 5%	1/10W	
R7005	NRSA02J-822NY	MG RESISTOR	8.2K 5%	1/10W		R7742	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W	
R7006	NRSA02J-822NY	MG RESISTOR	8.2K 5%	1/10W		R7743	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W	
R7028	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7746	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W	
R7029	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7747	NRSA02J-104NY	MG RESISTOR	100K 5%	1/10W	
R7031	QRD161J-331	CARBON RESISTOR	330 5%	1/6W		R7749	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W	
R7032	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7751	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7033	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R7752	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7051	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7753	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7052	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7754	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7061	NRSA02J-333NY	MG RESISTOR	33K 5%	1/10W		R7755	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7062	NRSA02J-473NY	MG RESISTOR	47K 5%	1/10W		R7756	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7063	NRSA02J-104NY	MG RESISTOR	100K 5%	1/10W		R7757	NRSA02J-473NY	MG RESISTOR	47K 5%	1/10W	
R7081	NRSA02J-104NY	MG RESISTOR	100K 5%	1/10W		R7758	NRSA02J-1473NY	MG RESISTOR	47K 5%	1/10W	
R7082	NRSA02J-104NY	MG RESISTOR	100K 5%	1/10W		R7759	NRSA02J-333NY	MG RESISTOR	2.2K 5%	1/10W	
R7083	NRSA02J-103NY	MG RESISTOR	100K 5%	1/10W		R7761	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7084	NRSA02J-103NY	MG RESISTOR	100K 5%	1/10W		R7762	NRSA02J-153NY	MG RESISTOR	15K 5%	1/10W	
R7091	NRSA02J-103NY	MG RESISTOR	100K 5%	1/10W		R7763	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7092	NRSA02J-271NY	MG RESISTOR	270 5%	1/10W		R7764	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7093	NRSA02J-153NY	MG RESISTOR	100K 5%	1/10W		R7765	NRSA02J-683NY	MG RESISTOR	68K 5%	1/10W	
R7095	NRSA02J-333NY	MG RESISTOR	33K 5%	1/10W		R7772	NRSA02J-114NY	MG RESISTOR	33K 5%	1/10W	
R7097	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R7773	NRSA02J-114NY	MG RESISTOR	2.2K 5%	1/10W	
R7098	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7774	NRSA02J-103NY	MG RESISTOR	110K 5%	1/10W	
R7099	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7775	NRSA02J-103NY	MG RESISTOR	68K 5%	1/10W	
R7099	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7776	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W	
R7101	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R7777	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W	
R7102	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R7778	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W	
R7103	NRSA02J-103NY	MG RESISTOR	1.0K 5%	1/10W		R7819	QRD161J-122	CARBON RESISTOR	110K 5%	1/10W	
R7104	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7821	NRSA02J-103NY	MG RESISTOR	68K 5%	1/10W	
R7105	NRSA02J-473NY	MG RESISTOR	47K 5%	1/10W		R7822	NRSA02J-103NY	MG RESISTOR	1.0K 5%	1/10W	
R7106	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		R7823	GRD161J-122	CARBON RESISTOR	110K 5%	1/10W	
R7111	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W		R8001	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W	FOR B784
R7713	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W		R8002	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W	
R7715	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W		R8003	NRSA02J-122	MG RESISTOR	1.2K 5%	1/10W	
R7716	NRSA02J-472NY	MG RESISTOR	4.7K 5%	1/10W		R8004	NRSA02J-152NY	MG RESISTOR	1.5K 5%	1/10W	
R7717	NRSA02J-472NY	MG RESISTOR	4.7K 5%	1/10W		R8005	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W	
R7718	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W		R8006	NRSA02J-272NY	MG RESISTOR	2.7K 5%	1/10W	
R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R8007	NRSA02J-392NY	MG RESISTOR	3.9K 5%	1/10W	
R7721	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R8008	NRSA02J-562NY	MG RESISTOR	5.6K 5%	1/10W	
R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R8009	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W	
R7723	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W		R8011	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W	
R7724	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W		R8012	NRSA02J-102NY	MG RESISTOR	1.0K 5%	1/10W	
R7725	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W		R8020	NRSA02J-473NY	MG RESISTOR	VERSION		
R7726	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W		R8101	NRSA02J-271NY	MG RESISTOR	VERSION		
R7727	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W		R8102	NRSA02J-391NY	MG RESISTOR	270 5%	1/10W	
R7729	NRSA02J-103NY	MG RESISTOR	10K 5%	1/10W		S6370	VSH115-3-002	SWITCH	390 5%	1/10W	
R7731	NRSA02J-2222NY	MG RESISTOR	2.2K 5%	1/10W		S6371	VSH115-2-002	SWITCH			

## CD Servo Control Board

A.	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
					100MF 20% 10V 10MF 2% 25V 1000PF 10% 50V 1.0MF 20% 50V 1.0MF 10% 50V
C 604	QEK51AM-107	E.CAPACITOR			
C 605	QET41EM-106	E.CAPACITOR			
C 606	QCBBA1HK-102Y	C.CAPACITOR			
C 607	QCBBA1HK-102Y	C.CAPACITOR			
C 608	QET41HM-105	E.CAPACITOR			
C 609	QCBBA1HK-101Y	C.CAPACITOR			
C 610	QFLC11HJ-2732M	M.CAPACITOR			
C 611	QCXB1CM-222Y	C.CAPACITOR			
C 612	QCVB1CM-103Y	C.CAPACITOR			
C 613	QCBBA1HK-331Y	C.CAPACITOR			
C 614	QFLC11HJ-1062M	M.CAPACITOR			
C 615	QCHB1E2-223	C.CAPACITOR			
C 616	QCHB1E2-223	C.CAPACITOR			
C 617	QCHB1E2-223	C.CAPACITOR			
C 618	QCXB1M-222Y	C.CAPACITOR			
C 619	QCBBA1HK-271Y	C.CAPACITOR			
C 620	QCS11HJ-70	C.CAPACITOR			
C 621	QCRB1HK-821Y	C.CAPACITOR			
C 622	QET41AM-76	E.CAPACITOR			
C 623	QFLC11HJ-1042M	M.CAPACITOR			
C 624	QCC11EM-733V	C.CAPACITOR			
C 625	QET41AM-747	E.CAPACITOR			
C 626	QCS11HJ-107	E.CAPACITOR			
C 627	QCS11HJ-120	C.CAPACITOR			
C 628	QCS11HJ-135	C.CAPACITOR			
C 629	QET41AM-707	E.CAPACITOR			
C 630	QCC11EM-473V	C.CAPACITOR			
C 631	QCBBA1HK-771Y	C.CAPACITOR			
C 632	QEK51AM-107	E.CAPACITOR			
C 633	QFLC11HJ-223	C.CAPACITOR			
C 634	QCBBA1HK-223	C.CAPACITOR			
C 635	QCBBA1HK-473V	C.CAPACITOR			
C 636	QET41AM-757	E.CAPACITOR			
C 637	QCBBA1HK-105	C.CAPACITOR			
C 638	QFLC11HJ-223	C.CAPACITOR			
C 639	QCC11EM-733V	C.CAPACITOR			
C 640	QET41AM-757	E.CAPACITOR			
C 641	QCBBA1HK-771Y	C.CAPACITOR			
C 642	QFLC11HJ-223	C.CAPACITOR			
C 643	QCS11HJ-733V	M.CAPACITOR			
C 644	QCBBA1HK-223	C.CAPACITOR			
C 645	QFV71HJ-3342M	FILM CAPACITOR			
C 646	QCXB1CM-152Y	C.CAPACITOR			
C 647	QCXB1CM-152Y	C.CAPACITOR			
C 648	QET41AM-757	E.CAPACITOR			
C 649	QCBBA1HK-223	C.CAPACITOR			
C 650	QCBBA1HK-102Y	C.CAPACITOR			
C 651	QCBBA1HK-102Y	C.CAPACITOR			
C 652	QCS11HJ-70	C.CAPACITOR			
C 653	QCBBA1HK-223	C.CAPACITOR			
C 654	QCC11EM-473V	C.CAPACITOR			
C 655	QET41AM-757	E.CAPACITOR			
C 656	QCBBA1HK-771Y	C.CAPACITOR			
C 657	QFLC11HJ-223	C.CAPACITOR			
C 658	QCC11EM-733V	C.CAPACITOR			
C 659	QET41AM-757	E.CAPACITOR			
C 660	QCBBA1HK-151Y	C.CAPACITOR			
C 661	QFLC11HJ-151Y	C.CAPACITOR			
C 662	QCC11EM-152Y	C.CAPACITOR			
C 663	QCS11HJ-733M	M.CAPACITOR			
C 664	QCBBA1HK-223	C.CAPACITOR			
C 665	QFV71HJ-3342M	FILM CAPACITOR			
C 666	QCXB1CM-152Y	C.CAPACITOR			
C 667	QCXB1CM-152Y	C.CAPACITOR			
C 668	QET41AM-757	E.CAPACITOR			
C 669	QCBBA1HK-223	C.CAPACITOR			
C 670	QCBBA1HK-102Y	C.CAPACITOR			
C 671	QCBBA1HK-151Y	C.CAPACITOR			
C 672	QFLC11HJ-151Y	C.CAPACITOR			
C 673	QET41AM-757	E.CAPACITOR			
C 674	QCBBA1HK-223	C.CAPACITOR			
C 675	QCBBA1HK-102Y	C.CAPACITOR			
C 676	QCBBA1HK-102Y	C.CAPACITOR			
C 677	QCBBA1HK-151Y	C.CAPACITOR			
C 678	QFLC11HJ-151Y	C.CAPACITOR			
C 679	QCC11EM-152Y	C.CAPACITOR			
C 680	QET41AM-757	E.CAPACITOR			
CN601	QGF1008F1-15	15PIN CONNECTOR			
CN602	VMC0163-R07	CONNECTOR			
CN603	VMC0163-R11	CONNECTOR			
CN604	VMC0041-003	SI DIODE			
CN605	ISSI33	SI DIODE			
IC601	AN8806SB	IC			
IC602	BA6897FP	IC			
IC603	MN35510	IC			
Q 601	2SA972(L,K)	TRANSISTOR			
Q 631	2SA972(L,K)	TRANSISTOR			
R 601	QRD161J+123	CARBON RESISTOR	12K 5% 1/6W		
R 603	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W		
R 605	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W		

BLOCK NO. 031111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 606	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W	
R 607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 609	QRD161J-114	CARBON RESISTOR	110K 5% 1/6W	
R 610	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
R 614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
R 615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W	
R 616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W	
R 621	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 622	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 623	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 631	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R 632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R 642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R 643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R 644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R 647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 653	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 655	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R 659	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R 664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R 666	QRD161J-220	CARBON RESISTOR	22.5 5% 1/6W	
R 671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
X 651	VC45016-934V	CRYSTAL	16.9344MHz	

## 15.Packing

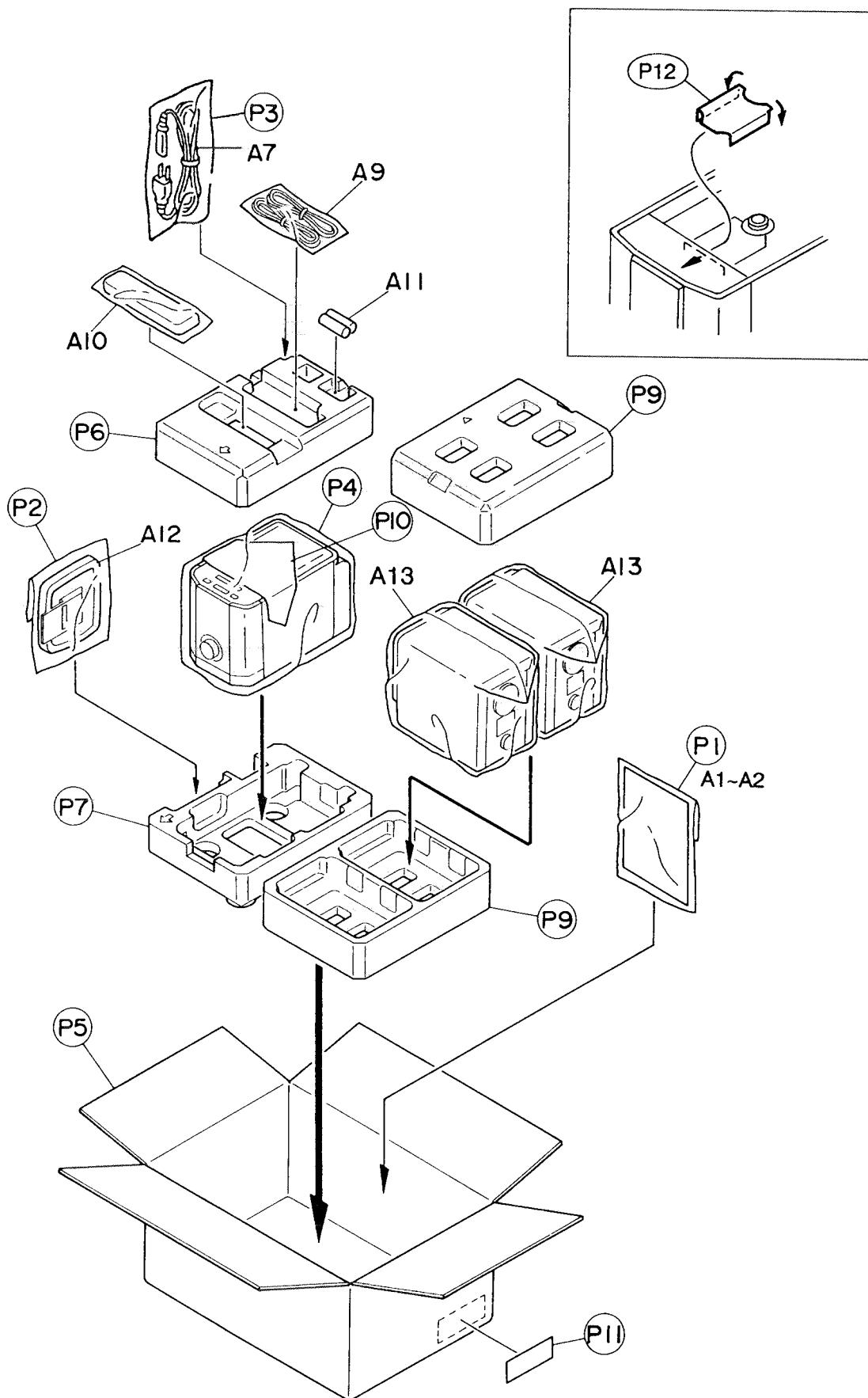


Fig. 15-1

## ■ Packing Parts List

BLOCK NO. M3MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	Q'TY	SUFFIX	CLR
P	1	VPE3005-007	POLY BAG	INSTRUCTIONS	1		
P	2	VPE3005-042	POLY BAG	AM LOOP ANT	1		
P	3	QPGA012-02505	POLY BAG	FOR POWER CORD	1		
P	4	VPE3020-018	POLY BAG	SET	1		
P	5	VPC9302-C004	CARTON		1		
P	6	VPH1695-001	CUSHION	TOP	1		
P	7	VPH1695-002	CUSHION	BOTTOM	1		
P	9	VPH2481-001	SPK CUSHION	SERVICE PARTS	2		
P	10	VPK3001-012	SPK SHEET		1		
P	11	-----	CARTON LABEL		1		
P	12	VPK4236-010	SPACER		1		

## ■ Accessories

BLOCK NO. M4MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	Q'TY	SUFFIX	CLR
A	1	VNN9291-121C	INSTRUCTIONS		1		
A	2	BT-59001-1C	JSC W CARD		1		
A	7	QMP7530-183	POWER CORD	POWER CORD	1		
A	8	EWP201-011	B. IN ANT	FM ANT.	1		
A	9	VMP0133-001	SPK.CORD(2PCS)	SPEAKER CORD OF	1		
A	10	VGRO055-301	REMOCON UNIT	RM-RXU2000GD	1		
A	11	R6PRPA-2STSA	BATTERY	FOR REMOCON	2		
A	12	EQB4001-015	AM LOOP ANT	AM ANT.	1		
A	13	UX2000K-SPBOX	SPEAKER		2		
SVP	1	VYTB430	SARAN NET ASSY	SERVICE PARTS	2		
SVP	2	VGS0801-009	SPEAKER	SERVICE PARTS	2		

UX-2000GD UF

**JVC**

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